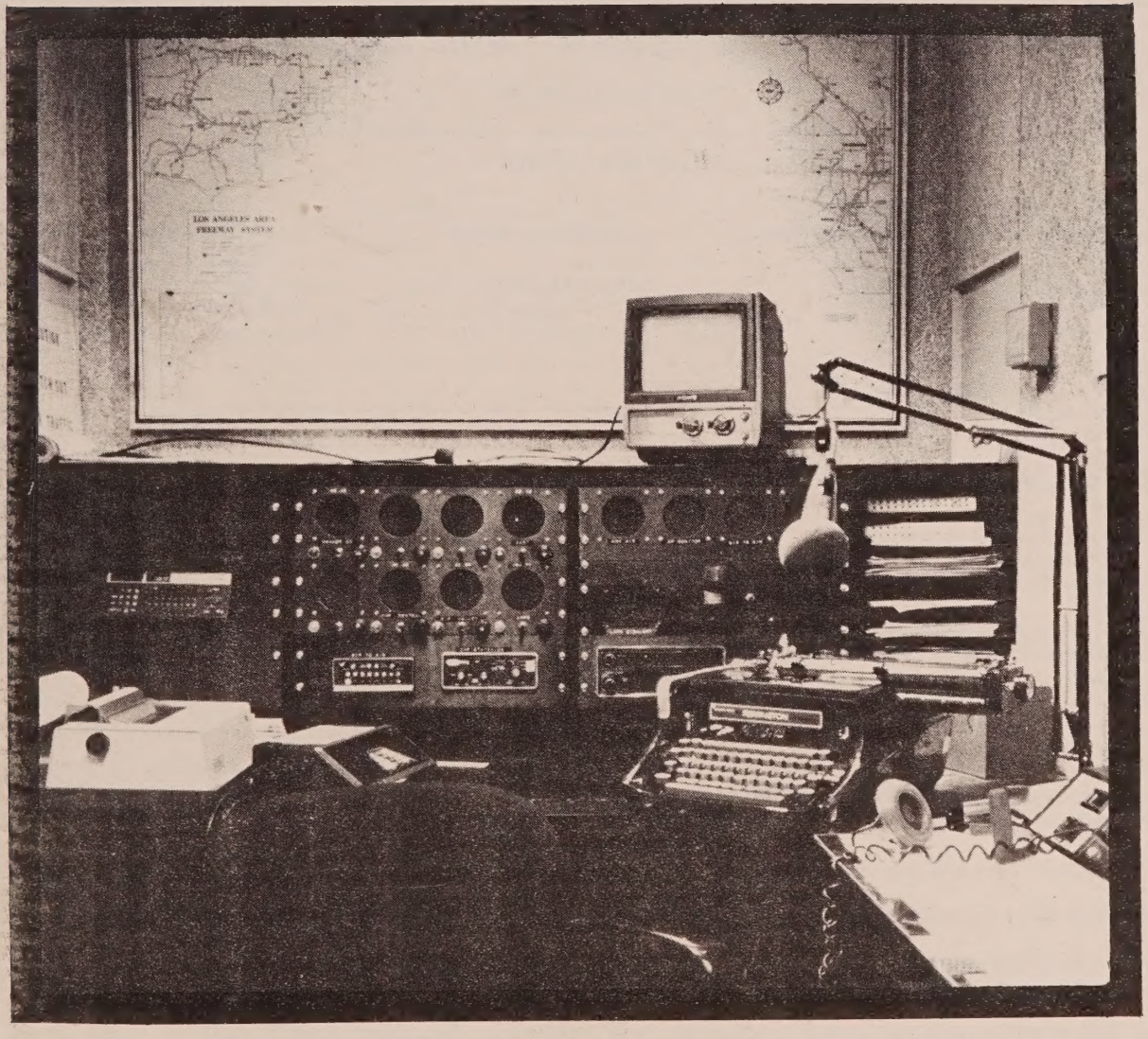
RCMA

NEWSLETTER

MARCH 1986



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OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

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Boca Raton, FL 33431

ASSISTANT EDITOR

Ginny Slick (MD-012)
1 West Potomac
Williamsport, MD 21795

FOR YOUR INFORMATION:

1. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropriate, send input to RCMA, 1 West Potomac, Williamsport, MD 21795.

2. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA General Manager, P.O. Box 542, Silverado, CA 92676.

3. PLEASE INCLUDE YOUR RCMA MEMBERSHIP NUMBER WITH ALL CORRESPONDENCE to newsletter editors or club headquarters.

4. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.

5. Please write on only one side of the paper.

6. Please don't combine in one letter several items that should go to different addresses.

7. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.

8. Your RCMA membership number and expiration date appear on your newsletter mailing label.

9. You may join or renew your membership for ONLY one year at a time.

10. RCMA accepts paid advertising. For information on advertising rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P.O. Box 542, Silverado, CA 92676.

RCMA NEWSLETTER

ISSUE 121 MARCH 1986

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RCMA, Inc., P.O. Box 4563, Anaheim, CA 92803

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CONTACTING RCMA?

Membership applications or renewals, address changes, inquiries about delivery or renewal problems:

Write to: RCMA General Manager
P.O. Box 542
Silverado, CA 92676

Comments or questions about RCMA club policy or newsletter content: Write to: William Mauldin, RCMA General Editor
2268 N. W. 30th Rd.
Boca Raton, FL 33431

Letters for publication in "Your Thoughts" column: Write to: Ginny Slick
1 West Potomac
Williamsport, MD 21795

Correspondence sent to RCMA's Anaheim Post Office Box will still be answered, but there will be a 4-6 week delay.

Here's the monitoring post used by KNX Newsradio 1070 for L.A. traffic reports. Five scanners are used, plus receivers for single CHP channels. A two-way radio communicates with Metro Traffic aircraft on 455.950. (Courtesy KNX - Photo by Hugh Stegman)

The RCMA Newsletter is published by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, Inc., P.O. Box 4563, Anaheim CA 92803. Subscription rate/membership fee is $16.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$18.50; Europe—$20.00, South Pacific and Asia—$21.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted ©. Reproduction of any material in this newsletter is prohibited without prior written consent.

CALENDAR

Send notices of upcoming events for the Calender section to:
John R. Clark, 2701 Fairview Road, Costa Mesa, CA 92620
Deadline: 1st of the month two months prior to cover date.

R.C.M.A. Greater L. A. Area Chapter

Contact : Eric J. Christensen (CA-LA-045) KA6IHT 224.66 MZz
P.O. Box 3962 Santa Fe Springs, CA 90670-1962

Friday 28 February 1986 Tour -Tentative- 8:00 PM

Pacific Telephone, Micorwave Center, 420 N. Grand, Los Angeles
From this building, most telephone calls and TV video signals are microwaved to the San Francisco Bay area and other areas.

Saturday 29 March 1986 Tour 12:30 PM *** note 5th Saturday ***

Los Angeles International Airport Tower --park in LAX Tower lot.
The tour follows the TRW Amateur Swap Meet which runs 7 AM to 11 AM.
The TRW Swap Meet is at Aviation & Marine in Redondo Beach well worth visiting before the tour. You will have time for lunch.

Friday 25 April 1986 Tour 8:00 PM Los Angeles PD Dispatch Center ECCCS

City Hall East 4th floor basement. 200 N. Main Street, Los Angeles
Parking is anywhere you can. This tour is one of the best we have.

Saturday 24 May 1986 Tour 11:30 AM *** note 4th Saturday ***

United States Forest Service - South Zone Communications Center
2524 Mulberry, Riverside (S.W. corner of SR 91/SR 60 Freeways)
Best exit from SR 60 at first available exit from SR 91 going East, and hook back over SR 91 on Spruce St. This is the home of 415.525 South Zone Dispatch where major fires are coordinated.

R.C.M.A. West Los Angeles Chapter

Contact : Hugh Stegman (CA-LA-472) (213) 473-8333
11622 Exposition Blvd #2, Los Angeles, CA 90064
Amateurs try 146.925 MHz Tue 1930 {PL-2A}

The new West Los Angeles Chapter of RCMA meets on the 2nd Wednesday of every month, at 7:30 PM, at Shakey's on Sepulveda Blvd. and Playa or Jefferson (depends on which way you're going), in Culver City. This is a few blocks north of Fox Hills Mall, and the 405 freeway.

R.C.M.A. Chicago

Contact Edward Robert Sirovy IL-004 312 969 2856
311 S. Williams Street, Westmont, Il 60559

Meetings: Location as of this printing is up for grabs. Send a SASE to above address for late breaking news. Your help in locating a place would be appreciated. Remaining meeting dates are tentative.

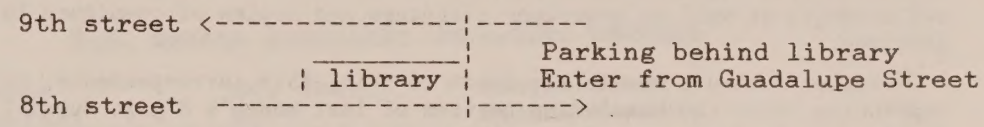
Saturday	March	8	1986	12:30 PM
Saturday	April	19	1986	12:30 PM
Saturday	June	7	1986	12:30 PM
Saturday	August	2	1986	12:30 PM
Sunday	August	17	1986	Field Exercise (Shoe Factory
Saturday	September	27	1986	12:30 PM Woods)
Saturday	November	15	1986	12:30 PM

Visitors are welcome but please confirm the date in advance.

A SASE on file assures notification of tours and other items which may be scheduled on short notice.

Austin Area Radio Listeners Meeting

Meeting every 2nd Tuesday 6:45 PM Austin Public Library 4th floor room B. For more information, contact Richard Quintanilla TX 043 Austin Radio Club, P.O. Box 5053, Austin TX 78763



R.C.M.A. for D.C., MD, VA, & DE

Contact: Capitol Hill Monitors % Alan Henney (MD 069)
6912 Prince Georges Ave, Takoma Park, MD 20912

R.C.M.A. Minneapolis—St. Paul Area

Contact: Chuck Steier MN-008 (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

A SASE on file assures notification of chapter activities (tours, gatherings, etc). Non members are welcome to attend.

All Ohio Scanner Club

Contact : Dave Jones Treasurer or John Thyne Secretary
P.O. Box 148, Vandalia, Ohio 45377

The All Ohio Scanner Club covers the area of Indiana, Kentucky, Michigan, Pennsylvania, West Virginia, and Ontario, Canada.We welcome members from these and other areas who wish to join our club.

Sample Newsletter: $1.00 plus .39 stamp. Membership information for a large SASE to the Post Office Box listed above.

To contact David B. Marshall OH-146, Managing Editor,
50 Villa Road, Springfield, OH 4503-1036

R.C.M.A. Wisconsin

Contact Scott W. Miller WI-039
122 Greenbriar Drive, Sun Prairie, WI 53590

NEED BACK ISSUES OF THE RCMA NEWSLETTER:

Lots (Months/Year)	No. of Issues	Price
Sept 75 — June/July 76 (No Oct. or Nov. Published)	7	$2.00
August — Dec. 76 (No Oct. Published)	4	$3.00
Jan. — June 77	6	$4.00
July — Dec. 77	6	$4.00
Jan. — June 78	6	$5.00
July — Dec. 78	6	$5.00
Jan. — June 79	6	$6.00
July — Dec. 79	6	$7.00

1980—to date issues are available at $1.50 per copy

Order Total	Include This Amount of Postage
$ 1.50 — $ 5	$1.20
$ 5.50 — $10	$2.25
$10.50 — $15	#3.30
$15.50 — $25	$4.15
$25.50 — $35	$5.50
Over $35	$7.00

Send your request & check/M.O. (payable to RCMA) to:
RCMA General Manager
P.O. Box 542
Silverado, CA 92676

your thoughts

Ginny Slick, Assistant Editor
1 West Potomac, Williamsport, MD 21795

Letters for publication in this column continue to voice concern about the Electronic Communications Privacy Act of 1985. Members have sent in their own comments as well as newspaper clippings and copies of commiques to Congressmen.

Rather than use newsletter space to print this correspondence, we are reprinting below the concluding portion of last month's 8 page Special Feature, which is an in-depth report on all aspects of the above legislation, and which summarizes members' concerns. We hope this information will assist you in taking action if you have not already done so.

Our thanks to the following RCMA members who wrote to Ginny concerning the above issue:

Raymond Woods, Jr. OK-036
John D. Parken UT-015
Lee Croce NC-061
John H. Hart PA-019

RCMA General Manager

This is one of the few times when your Newsletter is timely. Due to the Congressional Winter Recess, we were able to compile this information and have it appear in the February Newsletter. On the following pages you will find some important names and addresses. If you feel that the points brought forth here are valid, then we urge you to contact your Representative and Senator, as well as the members of the House and Senate Judiciary committees, and express your concerns.

Finally, to help us stay current on this topic, we are asking that you send a copy of any articles you read, or a synopsis of any reports you see or hear concerning the Electronic Communications Privacy Act of 1985. Each contribution will be acknowledged with a postcard. Hugh Stegman, Photo Editor, will compile a synopsis of the contributed information to appear in the Newsletter. Any information which you send us will be useful in our cordination efforts with other organizations that share our concern about this legislation. As well, if you write Congress, please send us a copy of your letter. Thank you!

Please send all information contributions to:

Kurt D. Swaney
PRIVACY ACT INFORMATION
PO Box 1198
Manhattan Beach, CA 90266

U.S. House of Representatives Judiciary Committee members

Peter Rodino, Jr		NJ, Chair	Hamilton Fish		NY
Jack Brooks	*	TX	Carlos Moorhead	*	CA
Robert Kastenmeier	*	WI	Henry Hyde	*	IL
Don Edwards		CA	Thomas Kindness	*	OH
John Conyers, Jr		MI	Dan Lungren		CA
John Seiberling		OH	James Sensenbrenner, Jr		WI
Romano Mazzoli	*	KY	Bill McCollum		FL
William Hughes		NJ	Clay Shaw, Jr		FL
Sam Hall, Jr		TX	George Gekas		PA
Mike Synar	*	OK	Michael DeWine	*	OH
Patricia Schroeder	*	CO	William Dannemeyer		CA
Dan Glickman	*	KS	Hank Brown		CO
Barney Frank		MA	Patrick Swindall	*	GA
George Crockett		MI	Howard Coble	*	NC
Charles Schumer		NY			
Bruce Morrison	*	CN			
Edward Feighan		OH			
Lawrence Smith		FL			
Howard Berman	*	CA			

Frederick Boucher	*	VI
Harley Staggers		WV

* = Courts, Civil Liberties and the Administration of Justice subcommittee member

U.S. Senate Judiciary Committee members

Strom Thurmond		SC, Chair	Joseph Biden		DE
Charles Mathias	*	MD	Edward Kennedy		MA
Paul Laxalt	*	NV	Robert Byrd		WV
Orrin Hatch	*	UT	Howard Metzenbaum	*	OH
Alan Simpson	*	WY	Dennis DeConcini	*	AR
John East		NC	Patrick Leahy	*	VT
Charles Grassley		IA	Howell Heflin		AL
Jeremiah Denton		AL	Paul Simon		IL
Arlen Specter		PA			
Mitch McConnell		KY			

* = Patents, Copyrights and Trademarks subcommittee member

Where to Write

Contacting your Representative or Senator is VERY easy. Simply address your letter to:

Representative _____
U.S. House of Representatives
Washington, DC 20515

Senator _____
U.S. Senate
Washington, DC 20510

To telephone your Congressman, simply call (202) 224-3121. You will reach the Capital Operator, who can give you any telephone numbers you might want, as well as transfer your call.

To request your own personal copy of the Electronic Communications Privacy Act of 1985, telephone (202) 225-3456 and request "H.R. 3378" or write:

House Document Room
U.S. House of Representatives
Washington, DC 20515

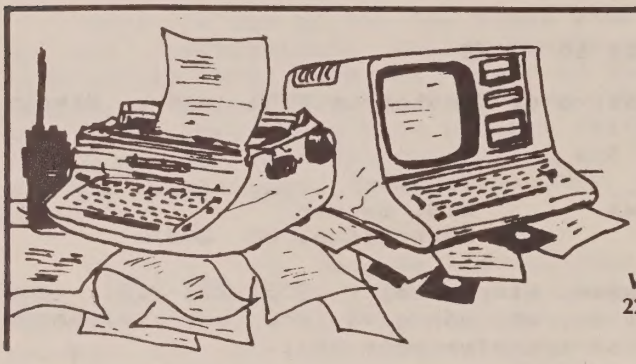
Dear Ginny:

I'm in search of one good scanner operator who has the time available for a fun and interesting project. On July 4, 1986, the newly refurbished Statue of Liberty will be rededicated in New York Harbor. Many celebrations will be taking place during the week of the rededication. One event will be a torch run from Washington, D.C., to the statue at Jersey City, N.J. The group sponsoring the torch run, Olympic Torch Relay Reunion Inc., is a non-profit group based in New Jersey and is composed primarily of individuals who helped out with the highly successful torch run across the United States prior to the 1984 Summer Olympic Games in Los Angeles. I am serving as communications director for the 1986 Liberty Torch Relay and plan to promote the use of scanners during the event. I am searching for one good scanner operator (maybe two operators) who would ride in our command post communications bus during the four-day event and keep tuned to not only our own internal communications, but also to coordinating agencies and to keep an ear "up the road." The person(s) selected to go with the torch run should be familiar with emergency services communications systems in Washington, D.C., Maryland, Delaware, southeastern Pennsylvania and New Jersey. The torch run will leave Washington on June 30 as President Reagan lights the initial torch. The caravan of 20 vehicles then

will travel for four days to the Statue of Liberty for the massive celebration planned for there, where the Lady's new torch will be "lit." Your transportation will be arranged and your meals and lodging for the week will be taken care of. If you are interested in working with me on this very visible project, write me a letter telling me why you would be qualified to handle such a job for the week. Let me know how familiar you are with radio systems between Washington and New York City and be sure to indicate your availability for the week of June 29-July 4, 1986. I also will need to meet with you at least once or twice to discuss the project. If you are interested in helping to celebrate Liberty with scanners, please write to me as listed below. Thank you.

73,
Chuck

Chuck Gysi (PA-005)
P.O. Box 144
Rosemont, NJ 08556-0144



From The CAPTAIN'S DESK

William Mauldin, RCMA General Editor
2268 N.W. 30th Rd., Boca Raton, FL 33431

THE COMMUNICATIONS ELECTRONICS PRIVACY ACT OF 1985

As this article is being written, the Congress gets closer to consideration of THE COMMUNICATIONS PRIVACY ACT OF 1985. If you have not written your personal representatives in the House and Senate by now, I urge you strongly to do so today. If House Bill H.R.3378 or Senate Bill S.1667 actually passes, the results will be eye opening, I am sure. We have tried to keep you updated here in the NEWSLETTER, however, there is nothing like having a copy of the Bill(s) and reading for yourself. Your Congressman or Senator will keep you advised on the status of the Bill(s), any changes made to the text, and how close the legislation is to a floor vote if you will just ask for this information. I encourage you to do just that.

Your representatives need to be advised as to your feelings and needs regarding these pending laws. We have been printing information related to these Bills in many of the past NEWSLETTERS. I urge you to read the information if you have not.

The COMMUNICATIONS ELECTRONICS PRIVACY ACT OF 1985 could become an important matter to confront the freedom of the radio listener for many years. If you don't act to understand the pending laws, you could lose some of your rights to listen to many of the radio frequencies you enjoy today. This certainly is a possibility in the present form.

ARRL in the January edition of QST, the official club publication, voiced some concern, but not alarm over the Bills. They stated that loss of the amateur repeater auto-patch was unlikely in the present form, however, they did note that ARRL congressional staff personnel would continue to watch the legislation as it comes from House and Senate committees. RCMA amateur radio operator members should watch for 5YI bulletins and for QST announcements, as should all of us in the hobby.

Staying well informed will safeguard your rights in all matters, but until these two Bills have been passed or defeated, I urge each of you to follow the progress of the pending legislation, be aware of what is being changed, if anything - and above all, let your representatives know what your informed opinion is, and how they should vote to best represent your personal interests. Keeping you informed will continue to be our primary objective.

IT HAPPENED IN FLORIDA

Florida has long had a state law which prohibits the tape recording of private conversations without the consent of all persons involved. Recently the Florida Supreme Court held in the State v. Inciarrano that a murderer had "no reasonable expectation of privacy" when he shot a victim and there was a tape recorder on, taping the murder's voice, five gunshots, groans and the gushing of blood. All was admitted evidence in the case. (from LAW & ORDER magazine)

FLORIDA HIGHWAY PATROL AUXILIARY AND RESERVE PROGRAMS

In the Annual State Convention held in Miami during December, the FLORIDA HIGHWAY PATROL announced their new State Trooper Reserve program and started taking applications from those interested in becoming Reserve Troopers. The FHP has long had an Auxiliary Trooper program. The Auxiliary was formed in 1954 to offer the FHP extra personnel in the field, however, the FHPA members are not authorized to make arrests. The Auxiliary Trooper wears a uniform very similar to the regular trooper and is authorized to carry firearms while on duty. Auxiliary personnel must pass a background investigation, attend an approved Florida Criminal Justice and Training Standards course, qualify with the service weapon, be between 19 and 55 years of age, and be a high school graduate. The FHPA applicant must have two years of active military service, OR, one year of responsible post high school experience that required ability to deal effectively with individuals or groups of persons, OR, successful completion of thirty semester hours at an accredited college or university, OR, two years of active and satisfactory participation as a member of a Law Enforcement Explorer Post sponsored by a city, county or state law enforcement organization since age 16. There are minimum vision requirements, weight and height requirements, and availability requirements.

The Florida Highway Patrol Reserve Officer program differs from the Auxiliary program in that FHP Reserve Troopers will wear the same uniform, except for a patch below the regulation uniform insignia which says Reserve. Reserve Troopers must attend the regular Florida Highway Patrol Academy or have 240 hours of field training. Reserve Troopers will have full powers of arrest and drive a regular patrol vehicle during their tour of duty. All Reserve personnel will be required to work a minimum of one eight hour shift per month, and will not be on duty unless assigned to work by the FHP supervisor.

Both Auxiliary and Reserve personnel are authorized to drive marked and unmarked Florida Highway Patrol vehicles, however, Auxiliary members will not be assigned to regular patrol duties when operating the patrol vehicle alone.

The Florida Highway Patrol is accepting applications for these unpaid positions. If you are a resident of the State of Florida and you are interested in joining either the FHPA or the FHPR Trooper program, contact any of the local Florida Highway Patrol offices or write the FHPA Co-ordinator in care of the FHP in Tallahassee.

As an added remark, joining any auxiliary or reserve program offers excellent opportunities to serve your community, get in field experience on subjects that interest you, and offers an excellent stepping stone for those who want to eventually become full time police, fire or EMS career personnel. The FHPA officers put in many hours of patrol time each month, but radio dispatch duties are also available for those FHPA members who enjoy communications work.

Many state and local police organizations have reserve or auxiliary programs. Anyone with a frequency directory has probably noted the channels assigned to the Auxiliary personnel of the New York City Police. I am aware of several State Police and Highway Patrol organizations in other states which are investigating the possibility of starting up programs of this nature in their states. Check with your local officials to find out what is available in your area, and get involved.

MODEL UNIFORM MARKED POLICE VEHICLES OFFERED TO COLLECTORS

The P.D. Models, Ltd. company of Jefferson, New York has been advertising in many police professional publications recently. Their ad offers something that I felt many of you might find interesting... authentic models of marked police vehicles. The tiny models appear to be of high quality, detailed, lettered, painted with the official uniform markings of the police patrol unit now being used. All markings have been carefully reproduced in miniature. The model patrol car comes mounted on a 9x7 plaque with two pens and holders and a U.S. and state flag. A brass plate is available for those using the tiny marked patrol vehicle as a gift for retirement or award. At present only the following departments are represented in the collection, but more are being added.

New York City PD	Detroit City PD
Chicago PD	Los Angeles PD
Tennessee Highway Patrol	Virginia State Police
Massachusetts State Police	New Jersey State Police
Suffolk County Sheriff	California Highway Patrol
Long Island RR Police	New York City Transit Police
Nassau County NY Police	Suffolk County NY Police

I would not be surprised to see other emergency vehicle replicas added soon, as there is considerable interest in the models by collectors and retiring personnel. Oh yes, for those of you seriously interested, the models sell for $40.00 each, plus $3.00 for shipping, and remember to add state tax if you live in New York. P.D. Models Ltd., RT. #1, Box 243A, Jefferson, New York 12093.

NEW PUBLICATIONS THIS MONTH

Fox Marketing, Inc. has issued another SCANNER RADIO LISTING Directory. This is the 29th Fox volume, and like the others, this frequency data directory is devoted to a select geographic area. In this case, the area of coverage is the NEVADA/EAST CENTRAL CALIFORNIA area. The volume, RL-028-1, is again offering total coverage to the area, listing just about everything you want to know. Fox has made a standard practice of covering ALL services, and the book is detailed and cross referenced for easy use. Fox can give you more information on this and other directories if you write or call them in Dayton, Ohio. The address is Fox Marketing, Inc., 4518 Taylorsville Road, Dayton, Ohio 45424. Their phone number is 1-800-543-7892. We again thank Fox for making the directory available to us for review, and we also greatly appreciate them mentioning RCMA in the publication!

The Southeastern Repeater Association, Inc., a non-profit organization devoted to the co-ordination and representation of amateur VHF and UHF communications in the southeastern states has published their February 1986 directory. The book details all ham repeaters and their services. For information, contact the CVRA, Post Office Box 5655, Greensboro, NC 27435. If you are a ham or enjoy listening to ham repeaters, this is a book that is very handy for southeast USA members. Ask for information on the CVRA REPEATER JOURNAL. Associate memberships are available.

The ARRL REPEATER DIRECTORY for 1986 should be out by the time you read this editor. The American Radio Relay League, a non-profit organization devoted to amateur radio, publishes this book once a year. The publication is a detailed listing of all known amateur repeaters in the USA and surrounding areas. There is no other book which gives such detailed information on VHF/UHF amateur communications. Information on the ARRL REPEATER DIRECTORY and other ARRL publications is available by writing ARRL, 225 Main Street, Newington, CT 06111.

HELP WANTED - PUBLIC SAFETY SOUTHEAST

Much to my regret, John Dorsey, Editor of PUBLIC SAFETY SOUTHEAST, has announced that he can no longer continue in his effort to keep those of you in the Southeast informed as to what is happening! John has done a fine job with the column, but due to more demanding obligations, he must give up the position.

If you are interested in becoming Editor of PUBLIC SAFETY SOUTHEAST, I ask that you write me. In your letter, give me your thoughts and ideas for improving the column. It is important that you write me on the typewriter or word processing machine that you will be using to write the column, if selected. Again, this is most important. All Editor copy must be print ready, and your machine has quite a bit to do with you being selected to fill the opening! If two applicants are equal, the one with the best machine will receive the award.

I wish to thank John for his many months of enjoyable reading. We will miss him on the staff, but we will look forward to seeing his contributions as a member!

MONITORING AND THE LAW - COMING ATTRACTIONS

Hank Rose, NJ-206, has been selected as the Editor for our new MONITORING AND THE LAW column which will be starting soon. We welcome Hank to the all volunteer staff, and look forward to seeing him cover this very important subject in the coming months in his new regular monthly column. Hank is a former state police officer, has been monitoring for about 25 years, is active in many law enforcement organizations, is

working on his amateur license, and is well qualified to keep us all up to date! Welcome aboard, Hank! I know I speak for all when I say we are looking forward to seeing you in print starting next month!

CLOSING COMMENTS

Our 1986 Annual Member Survey will be coming out in a few months. As you may remember from our 1985 efforts, this survey is your best way to voice your vote for what we will be publishing in the coming months. We have added AMATEUR RADIO COMMUNICATIONS, NEW PRODUCT REVIEW and NEWS MEDIA COMMUNICATIONS to our column list this year as a direct result of the 1985 survey and your input. If you have any suggestions for the 1986 survey questions, I hope you will pass them along to me by mail. Your input is desired and requested. The 1986 Annual Member Survey will probably appear in the June or July issue.

When communicating with an editor, please do it by letter if possible. Many of the editors have irregular schedules, and phone calls often are difficult to answer. When you write, if an answer is requested, since the club does not yet pay postage for volunteer editors, a stamped, self-addressed envelope is always greatly appreciated.

Communications related to your subscription, renewal information or other business matters should be addressed to Carol Ruth, RCMA Business Manager. Letters of a "To the Editor" nature, to be considered for publication in YOUR THOUGHTS, should be addressed to Ginny Slick, Assistant Editor. Both addresses are listed in the front cover.

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS
NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs send a self-addressed, stamped business size envelope with your request to the address below.

Write to Joe Barr, 1500 Bunbury Dr., Whittier, CA 90601, for the following:
Copy of ANARC Club List — Sent 25¢ and an SASE (business size)
Sample Copy of ANARC Newsletter — Send 60¢ and an SASE (business size)
Annual Subscription to ANARC Newsletter — $7.50 for residents of U.S., Canada, and Mexico; $10 Overseas (Airmail)

ANARC 1986 Convention will be held July 18-20 in Montreal, Quebec, Canada, hosted by Ian McFarland and Radio Canada International. The Convention Hotel is Holiday Inn, Place Dupuis, 1415 St. Hubert St. Montreal, Quebec, Canada. All sessions will be held at the hotel.

The 1986 Executive Council for ANARC is

Terry Colgan (Executive Secretary)

Reuben Dagld	(ADXR)	Tom Gavaras	(MDXC)
Don Moman	(DIDX)	Harold Sellers	(OXDA)
Steve Sprachman	(WTFDA)	John Trautschold	(SPEEDX)

Michigan Area Radio Enthusiasts (MARE) is the newest club in the ANARC group. MARE is an all-wave club, publishing a bimonthly bulletin which is mailed by first class mail. The club holds local meetings and DXpeditions in the Detroit area. MARE will serve for one year as a provisional member before being eligible for full membership. Membership is $3.00 per year. Samples of the newsletter are $0.50. Address MARE 24500 Union, Dearborn, MI 48124.

Southern California Area DXers (SCADS) February 15th Saturday, 10 AM to 3 PM is holding a meeting at Village View School Auditorium, 5361 Sission Dr. Huntington Beach, CA. Fro details send a SASE to Don Schmidt, 3809 Rose Ave, Long Beach, CA 90807-4334. All DXers are welcome.

The International Listening Guide is no longer being represented by Douglas Hopkinson. I.L.G. Subscriptions and Enquiries about this publication should be sent directly to: Bernd Friedewald, c/o International Listening Guide, Merianstr 2-D-3588, Homberg, West Germany.

The Old Dominion DXers, a local SWL club serving Southern Virginia and North Carolina, and would like to contact DXers in these areas. For infor-

mation to future meetings, send a SASE to: Old Dominion DXers, 625 Charlecote Drive, Virginia Beach, VA 23464.

St. Louis Area Gateway DX Club, 836 Lamplight Lane, Hazelwood, MO 63042, is organizing to conduct DXpeditions and meetings for SW and AM (MW) DXers. For information send a SASE to above address.

The 515 Club, an independent association of the JRC NRD-515 owners, will send a free copy of their Newsletter to fellow owners who send a #10 SASE and a letter describing their interest in the hobby, their sets and equipment, etc, to 857 Virginia Ct., Sonoma, CA 95476

Klingenfuss Publications, Hagenloher Str 14, D-7400 Tuebingen, Fed. Rep. Germany has a rather large list of publications on utility stations worldwide. "Guide to Utility Stations" 4th edition including "Guide to Radioteletype Stations" 12th edition DM 60.- ISBN 3-924506-86-7. "Air and Metro Code Manual" 8th edt. DM 50.- ISBN 3-924509-38-7. "Magnetic Tape Recording of Modulation Types" 4th edition DM 20.-. "Supplement Service to the Guide to Utility Stations" DM 25.-. "Radioteletype Code Manual" 8th edition DM 25.- ISBN 3-924509-48-4. "Guide to Former Utility Transmissions" 2nd edition DM 25.- ISBN 3-924509-62-X. All items for DM 180.-. The tape is mailed separately from the books.

"The AERO/MARINE Beacon Guide" Edited by Ken Stryker, 6350 N.Hoyne Ave. Chicago Il, 60659 and compiled by Joe Woodlock is a complete reference to almost 6200 beacons. The Beacon Guide (published 1980) contained over 5500 beacons, 1000+ have been deleted and others added to create this new guide Entries include Frequency, ID, Country, State/province etc, Location, Coordinates, Watts, and a brief comment on each beacon. The format is loose leaf 3 ring notebook style and all data has been computerized for future update. No Price is shown on the guide, but I am sure if you send a SASE to the editor he will inform you. Both authors are associated with The Longwave Club of America, 45 Wildflower Road, Levittown PA, 19057.

AIRCRAFT

Send private, commerical, firefighting and law enforcement aircraft frequencies of interest in the 108-136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft plus questions, articles and tips related to aircraft monitoring to:

Darrel Charest, 1913F Oak Creek Lane, Bedford, TX 76022

Before we get too involved with this months column, I want to thank all of you who took the time to write. Membership response has been excellent. In fact it has been necessary to hold over some of the material for a month to keep the column from becoming too lengthy. These are, of course, the problems we like to have to deal with.

In an earlier issue, I promised we would have an article on ACARS, the communications system used by some of our commercial carriers. The excellent article by Mr. William Tobin has bounced around a bit trying to find the proper editor. If you have some interest in ACARS, do not despair - it will appear before long.

Our General Editor, Capt. Bill Mauldin, has provided me with a complete list of airline company frequencies, and as space permits and our members have a specific interest, we will include some of these in the Aviation Column or to the individual members if they are requested.

In some of our earlier articles the promise was made for more War Stories and detailed information on the air traffic control system. We still plan to do

so as space permits.

Now for the mail.

John C. McColman, VA-091, provided us with an excellent frequency list that appears later in the column. John suggested including more emphasis on systems used by airlines for communications as well as frequencies in use at the local airport.

Kevin Bathrick, NY-314, wrote again to provide more listings for the area. Most of these appear at the end of our column.

Geoff Hallingey, Editor Below 30mhz, forwarded an article appearing in one of the British Newspapers commentating on the state of the U.S. Air Traffic Control System. This article seems to support the contention of most of the U.S. News media that our ATC system is unsatisfactory and could be a contributing factor to some of the accidents that have occurred during the past year. Geoff has provided us with information before that appeared in the British news media and we appreciate his help.

Bob Studley, wrote again to provide frequencies for Hanscomb Airport, near Boston. Bob suggested that it would be helpful for aviation listeners to know how control of an aircraft is passed from one controller to another in the same facility and from tower to center and back again. It should make for better understanding of the ATC system, and we will do so within the next several issues of the Newsletter.

Gregory Morrow, ME-019, wrote to say that there are but two controlled airports in the state of Maine, making for limited monitoring in the air traffic control band. Greg did provide us with those he listens to in his area.

Gary Thomas, WI-078, provided another comprehensive list of air channels in the Wisconsin area. These too appear later.

Brad Carpenter makes a large number of contributions to our Public Safety South Central Editor, and has been very helpful to me. Like most of you, my interests are not only in the Aircraft Band but also in the Public Safety area. Brad has been very helpful to me by providing signal codes, frequencies, maps and other information on interest outside aircraft channels. Since Brad lives but a few minutes away, I feel fortunate to have this information on call when I need it.

Rob Berezowski, our Canada Editor, wrote to provide some background information related to an article that appeared in the Calgary Herald concerning installation of microwave landing systems (MLS) in Canada. This was most interesting to me to learn that our Northern neighbor is installing these at a number of airports in Canada, many that we would consider small towns. Yet in the U.S., to the best of my knowledge, we have only one of these latest state of the art systems in use. The article also goes on to report the addition of DME (distance measuring equipment) as complementary equipment at a number of other airports in Canada.

In the frequency listings that follow, here is a key to some of the acronyms and abbreviations.

CTAF	Common Traffic Advisory Frequency. Often this is Unicom but it may also be the FSS or Tower frequency when these are closed.
GRB	Green Bay
MKE	Milwaukee
MSP	Minneapolis
CHI	Chicago
DLH	Duluth
MSN	Madison
CMY	Don't know this one.

Most of the airports listed by Gary Thomas for Wisconsin area, are smaller communities and the approach/departure control frequency where listed is provided by the ATC facility in a relatively nearby city where these services are in operation. In these cases the facility is shown by its three letter identifier, i.e. GRB = Green Bay.

So on with our frequencies.

Bob Studley provides these from the Maine area.

Hanscomb Field

Ground Control	121.7	Tower	118.5
Arrival/Deptarture	124.4	ATIS	124.6

Bob also listed frequencies for Boston Logan Airport, but these have been displayed in a recent Newsletter so we need not duplicate them now.

Gregory Morrow with more frequencies from the Maine area.

Portland International

Approach/Dep N.	119.75	Tower	120.9
Approach/Dep S.	125.5	Ground	121.9
Clearance Del.	121.7	ATIS	119.05
Military Airlift Command	128.5		

Gary Thomas for the Wisconsin area.

Portage Municipal

CTAF*	122.7	Unicom	122.7
Approach	124.0	Departure	124.0

Prairie Du Chien

CTAF*	122.8	Unicom	122.8
FSS	122.25		

Sauk Prarie (Prairie Du Sac)

CTAF	122.9

Prentice

CTAF	122.9

Carter (Pulaski)

CTAF	122.9	Approach	119.4 (GRB)
Departure (GRB)	126.55		

Horlick (Racine)

CTAF	123.0	Unicom	123.0
Approach (MKE)	120.15	Departure	120.15

Red Wing Municipal

CTAF/Unicom	122.8	NDB	248khz

Reedsburg Municipal

CTAF	122.8	Unicom	122.8
Approach (CHI)	133.6	Departure	133.6

Rhinelander - Oneida Co.

CTAF	123.0	Unicom	123.0
FSS	122.1R		

Rice Lake Municipal

CTAF	122.7	Unicom	122.7
Approach (MSP)	125.3	Departure	125.3
FSS	122.1R	NDB	407khz

Richland

CTAF	122.9		
Approach (CHI)	133.6	Departure	133.6

Cowgill Field

CTAF	122.9

Walters Agri-Center and River Falls

CTAF	122.9

Fox River (Rochester)

CTAF/Unicom	122.8

Shawano Municipal

CTAF/Unicom	122.8

Sheyboygan County Memorial

CTAF/Unicom	122.7		
Approach (CHI)	127.5	Departure	127.5
FSS	122.1R		

Shell Lake Municipal

CTAF/Unicom	122.8		
Approach (MSP)	125.3	Departure	125.3
FSS	122.1R	NDB	212khz

Burnett County (Siren)

CTAF	122.9

Sparta Municipal

CTAF/Unicom	122.7		
Approach (CMY)	124.6	Departure	124.6

Door County Cherryland (Sturgeon Bay)

CTAF/UNICOM	122.7	NDB	414khz
Approach (GRB)	119.25	Departure	119.25

Sylvania (Sturtevant)

CTAF/Unicom	122.8

Richard I. Bong (Superior)

CTAF/Unicom	122.7	NDB	260khz
Approach (DLH)	125.8	Departure	125.8

Three Lakes Municipal

CTAF/Unicom	122.7

Bloyer Field

CTAF/Unicom	122.9

Tomahawk Regional

CTAF/Unicom	122.8

Verona

CTAF/Unicom	122.9

Viruqua Municipal

CTAF/Unicom	122.9		

Big Foot (Walworth)

CTAF/Unicom	122.9		

Washington Island

CTAF/Unicom	122.9		

Watertown Municipal

CTAF/Unicom	122.9	NDB	371khz
Approach (MSN)	119.15	Departure	119.15

Waukesha County

CTAF/Tower	123.7	Ground	121.6
Approach (MKE)	128.7	Departure	128.7

Waunakee

CTAF/Unicom	123.3		

Waupaca Municipal

CTAF/Unicom	122.8	NDB	382khz
Approach (MSP)	125.55	Departure	125.55

Waupun

CTAF/Unicom	122.9		

Wausau Municipal

CTAF/FSS	123.6	Unicom	123.0
Approach (MSP)	124.4	Departure	124.4

Wautuma Municipal

CTAF/Unicom	122.8		

West Bend Municipal

CTAF/Unicom	122.8	NDB	328khz
Approach (MKE)	124.75	Departure	124.75

Maple Grove

CTAF/Unicom	122.9		

Gutzmer's Twin Oaks (White Water)

CTAF	122.9		

Wild Rose

CTAF/Unicom	122.8		

Westosha (Wilmot)

CTAF/Unicom	123.0		

Courtney Plummer (Winne Cunne)

CTAF	122.9		

Clearwater Ranch (Wisconsin Dells)

CTAF	122.9		

Alexander Field (Wisconsin Rapids)

CTAF/Unicom		122.8	NDB		215khz
Approach	(MSP)	124.4	Departure		124.4

John C. McColman provides us with this list from the Virginia area.

Patrick Henry Intl

118.700 - Tower
✓125.700 - Approach/Departure
121.900 - Ground Control
122.950 - Unicom
128.650 - ATIS
122.200 - FSS
122.650 - FSS
255.400 - FSS
280.100 - Tower
395.800 - Approach/Departure
348.600 - Ground Control

Norfolk Intl

123.000 - Unicom
127.150 - ATIS
✓120.800 - Tower
257.800 - Tower
121.900 - Ground Control
✓125.200 - Departure Control
389.900 - Departure Control
118.500 - Clearance Delivery
✓118.900 - Approach Control
257.300 - Approach Control

Norfolk NAS

282.000 - ATIS
119.200 - Ground Control Approach
118.900 - Approach Control
257.300 - Approach Control
124.300 - Tower
340.200 - Tower
318.700 - Tower
121.800 - Ground Control
352.400 - Ground Control
237.800 - Helo Tower
312.400 - Helo Ground Control
125.200 - Departure Control
389.900 - Departure Control
120.700 - Clearance Delivery
348.000 - Clearance Delivery
130.650 - Air Terminal
349.400 - Air Terminal
268.800 - Base Operations
271.600 - Metro
385.100 - NARF (Razz Base)

Hampton Roads Airport

122.800 - Unicom
118.900 - Approach/Departure
257.300 - Approach/Departure

Felker AAF

125.700 - Approach/Departure
395.800 - Approach/Departure
126.300 - Tower
248.200 - Tower
241.000 - Tower
121.350 - Ground Control
229.400 - Ground Control

Oceana NAS

315.400 - ATIS
119.600 - Oceana Approach Control
279.200 - Oceana Approach Control
126.050 - Norfolk Approach Control
372.100 - Norfolk Approach Control
126.200 - Tower
360.200 - Tower
336.400 - Tower & Ground Control
374.800 - Oceana Departure Control
125.200 - Norfolk Departure Control
389.900 - Norfolk Departure Control
300.400 - Clearance Delivery
284.900 - Base Operations
387.400 - Metro

Langley AFB

122.900 - Pilot-To-Dispatcher
376.000 - Pilot-To-Dispatcher
270.100 - ATIS
125.700 - Approach/Departure
395.800 - Approach Control
379.100 - Departure Control
125.100 - Tower
✓253.500 - Tower
121.700 - Ground Control & Clearance Delivery
275.800 - Ground Control & Clearance Delivery
126.700 - Ground ControlApproach
381.300 - Command Post
122.850 - Nasa Operations
314.600 - Nasa Operations
239.800 - Metro

Aero Enroute

129.800 - Piedmont
130.100 - US Air
131.925 - Federal Express
129.450 - People Express
129.500 - Delta

Washington ARTCC

124.050 - Cape Charles
✓132.550
128.150 - Norfolk
306.900 - Norfolk
123.850 - Whaleyville
132.225 - Whaleyville
134.025 - Whaleyville
135.075 - Whaleyville
279.600 - Whaleyville
323.000 - Whaleyville

Approach Frequencies For Norfolk TRSA

118.900 257.300 <23 nm 026-080/180-294
125.700 395.800 <23 nm 295-025
126.050 372.100 >23 nm 310-080
127.900 249.900 >23 nm 180-309

Miscellaneous

127.650 - GiantKiller (VACAPES)
233.700 - GiantKiller (VACAPES)
350.000 - GiantKiller (VACAPES)
292.300 - King Cole (Fort Monroe)
373.100 - King Cole (Fort Monroe)
122.850 - Multicom
123.075 - Unicom (Heliports)
123.050 - Unicom (Heliports)
123.025 - Unicom (Helicopters)
122.975 - Unicom (High altitude)
122.750 - Unicom (air-to-air)
123.450 - Unofficially, used by pilots for chit-chat
127.950 - Traffic Advisory
120.550 - hrd used as a Norfolk App

Airport Operations

156.000 - Norfolk International Airport
155.880 - Norfolk International Airport
155.805 - Patrick Henry International Airport
460.675 - TWA Airlines
460.725 - United Airlines
460.750 - Eastern Airlines
460.775 - Delta Airlines
460.800 - Piedmont Airlines
151.715 - Flight International (Patrick Henry)
154.540 - Air Ferries (Norfolk)

EMERGENCY

121.500 - Distress
123.100 - Search And Rescue
243.000 - Distress
282.800 - Search And Rescue

"Flite Check"

135.850 - Primary
135.950 - Secondary

Coast Guard

353.900 - Enforcement Operations
126.400 - Aeronautical Operations
237.900 - Aeronautical Operations
277.800 - Aeronautical Operations
381.700 - Aeronautical Operations
381.800 - Aeronautical Operations
383.900 - Aeronautical Operations

Kevin Bathrick (NY-314)

Rhode Island State

Providence	120.7
Quonset State	121.2

Vermont State

Burlington Tower	118.3
Approach	121.1
	126.3

Federal Frequency Assignments

Air to Air Helicopter	123.025
Enroute Flight Advisory	122.00
ARINC	129.1
Civil Air Patrol	123.1
	122.9
Forestry Firefighting	118.925
	118.95
Emergency	121.5
Ground Control	121.6 - 121.9
Flight Schools	121.95
	123.2
	123.3
	123.4
	123.5

Federal Continued

Flight Service	122.35
	122.4
	122.45
	122.5
	122.6
Balloons	122.25
Unicom	122.7
	122.725
	122.75
	122.8
(at Tower Airports)	122.95
	122.975
	123.0
	123.05
	123.075
Multicom	122.85
	122.9
	122.925
Flight Service	123.65
Airport Advisory FSS	123.6
Military Apts Tower	126.2
	130.65
GCA	134.1

RCMA BUSINESS REPORT

RCMA 4TH QUARTER FINANCIAL REPORT - 1985

	OCTOBER	NOVEMBER	DECEMBER	4TH QUARTER
Mail Prep & Computer Updating	320.00	324.71	399.12	1,043.83
Newsletter Production & Printing	210.00	3,046.52	1,576.02	4,832.54
Postage:				
Bulk (3rd class)	300.00	300.00	225.00	825.00
1st class	120.00	307.68	409.84	837.52
Office Supplies		35.98		35.98
Accounting Expenses			50.00	50.00
Capital Expenditures*		781.22		781.22
FCC Subscription Renewal			145.00	145.00
Typesetting	241.00			241.00
Telephone Expenses	303.07			303.07
Truck Rental (Issue storage)	109.01			109.01
Returned check charges	48.00			48.00
Total Expenses	$1,651.08	$4,796.11	$2,804.98	$9,252.17
Balance 9/30/85: $8,312.10				
Deposits:	$3,383.60	$2,389.70	$3,115.30	$8,888.60
Balance:	$10,044.62	$7,638.21	$7,948.53	$7,948.53

*Copy machine & cartridge

AMATEUR RADIO COMMUNICATIONS

This column is for reporting on amateur radio activities that may be of interest to scanner listeners. Send reports and questions concerning repeater nets, civil emergency systems, packet ratio, amateur TV, etc., to:

Terry Stader, MI-062, 8 Christopher Road, Westford, MA 01886

GREETINGS..... Let me introduce myself. I will be the Editor for the new Amateur Radio column. I am a amateur radio operator, my call is KA8SCP. I picked up my "8" call when I was living in the Detroit, Michigan area. I am very active in the VHF/UHF bands here in New England. My operating station consists of the following; an ICOM-3200A which is a dual bander-2 meter/70 cm (144/440 Mhz) transciver, an ICOM-37A a 1-1/4 meter (220 Mhz) transciever and a Kenwood TR-2600A 2 meter H/T. Also I have become very active lately in Packet Radio with a TAPR(Tuscon Amateur Packet Radio) TNC2. I recently became the Emergency Coordinator for the town of Westford, MA. This is a position within the American Radio Relay League, Inc. (ARRL) for coordinating communication during civil emergencies.

I originally started as a VHF monitor enthusiast before becoming a 'ham'. I have a monitor station setup giving me coverage from 100 Khz thru 1.3 Ghz. My monitoring equipment includes; a Bearcat-300, JXL-200, Regency MX-7000, Bearcat-100, Realistic PRO-30, Regency K-150 and a Kenwood R-2000. Most of my neighbors must think that I am a cladstine radio operator with all the antennas around the yard. Even my car looks like an FCC monitoring vehicle.

Ok, so what is this column about? This column can be as much as you want it to be. I know that sounds like a pretty standard line!!! I would like to be able to provide to you everything YOU want to know about Amateur Radio! I will be putting out some general information about the ham bands but what I would like from you are the specifics for your area, ie. what frequecies are the local CD Net's on, etc. I would also like to help you out if you are intersted in becoming a ham. Do you know what is neccessary for you to get your 'ticket'? Where to write for information about classes etc... I don't want to forget those that already have their 'ticket' either. This column can be a clearing house for Net information for example. Just get to me the information to put into the Newsletter.

To make it as easy as I can for you to get the information to me, I offer the following suggestions. I am on CompuServe on a regular basis, my ID is 72415,1415. You can upload your input via the EasyPlex mail system. I do check into the HAMNET SIG while I am on. You may also contact me via Delphi of Cambridge, MA. My ID there is TSTADER. The same applies here as it did for CompuServe, information may be left in my "mailbox" or you can upload it as a file. For those of you that have Packet Radio capability and have an auto-forwarding PBBS nearby, I can be reached at the WORLI-1 PBBS in Westford, MA. And I should not forget the good ole' United States Postal Service.

Now to get off my 'soap box'and get down to work.....

There are almost 437,000 licensed Amatuer Radio Operators located within the U.S. and its possesions! A close second is West Germany.... almost 53,000!!! Obviously you will have a pretty good chance of hearing U.S. amateur activity no matter where you are. I don't want to mislead you, there is also foriegn amateur activity in most of the bands shown here.

All applications for license are handled and issued by the Federal Communications Commision. You probably all ready know that a combination of knowledge of Morse Code and theory of electronics are prerequsites for 'getting into' ham radio. Until recently the tests for verifying your knowledge of these areas was administered by the FCC. Now they are given by V.E.'s(volunteer examiners).

This first column will be devoted to those who essentially know very little about Amateur Radio, ie. where are the frequencies one should listen to. In future columns I will be addressing all aspects of 'ham' radio... for both the readers that are or are not already licensed. For those of you that are new to Amateur Radio listening maybe I should talk about some of the bands and what you may find on them.

Below I have listed some of the U.S. band plan/frequency ranges. At a later date we can talk about some of the foreign bands.

FREQS.	NAME
1800-2000 Khz	160 meters
3500-4000 Khz	80/75 meters (CW/80-phone/75)
7000-7300 Khz	40 meters
10,100-10,150 Khz	30 meters (new band 1985)
14,000-14,350 Khz	20 meters
21.000-21.450 Mhz	15 meters
24.89-24.99 Mhz	12 meters (new band 1985)
28.00-29.70 Mhz	10 meters
50.00-54.00 Mhz	6 meters
144.0-148.0 Mhz	2 meters
220.0-225.0 Mhz	1-1/4 meters
420-450 Mhz	70 cm
902-928 Mhz	33 cm
1215-1300 Mhz	23 cm

There are many additional frequencies available above those shown but are generally not in regular use except for experimental purposes. NOTE: The 17 meter band is not yet authorized for use in the U.S. and there are some frequency restrictions in the 33 cm band.

Most of these can be tuned in on the standard SWL recievers or scanners purchased in today's market. As a general rule you will find all modes(CW, Voice, SSTV, FAX and Digital) available throughout the bands. In the bands below 10.0 Mhz, lower sideband and AM are the standard voice modes used. In the bands above 10.0 Mhz, upper sideband and AM are normally used. CW is generally found in the lower segment of each band. On most occasions you will not find FM until you get above 6 meters. This is not true of AM, where it is found almost everywhere, although less likely in the frquencies above 144 Mhz. Repeater operations are allowed on the amateur frequencis above 29.5 Mhz.

As I have yet to recieve any information from any of our readers, I have shown below a network of VHF/UHF repeaters located here in New England. This system allows a user located almost anywhere in New England to talk to anyone else via a series of connected links. You will hear some long distance QSO's (conversations) on bands that are generally good for short distance communications. This network is ever expanding as shown in #4.

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1. PERMENANTLY CONNECTED 220 Mhz REPEATERS
   - Pack Monadnook, NH.....223.62
   - Concord, NH.....224.82
   - Tunbridge, VT.....224.68
   - Needham, MA.....224.12
   - Mt. Tom, MA.....224.62
   - Providence, RI.....224.68

2. CALLABLE 2 Meter REPEATERS
   - Tunbridge, VT.....146.970
   - Keene, NH.....147.375
   - Nashua, NH.....147.045

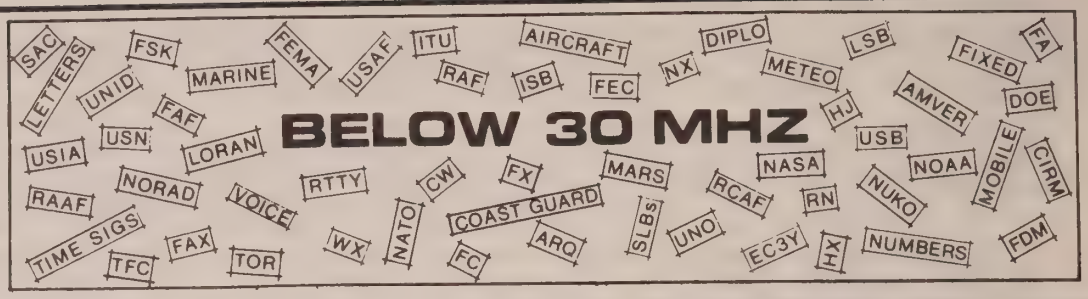
3. CALLABLE 450 Mhz REPEATERS
   - Mt. Washington, NH.....448.975
   - Streaked Mt., ME.....449.100

4. NEXT TO LINK
   - Burlington, VT (220 Mhz and 2 Meters)
   - Montreal, Quebec, Canada (2 Meters)
   - Falmouth, MA (2 Meters)
   - Martha's Vineyard, MA (220 Mhz)

The system shown allows a user thru the 'base' 220 Mhz (#1) system to call out through #2 and #3. These links are established through a Touch-Tone signalling code familar to the user. At this time the 224.82, 223.62 and 224.68 are linked so as conversations locally on 224.82 for example will be heard on the other two repeaters as well.

Thats all for now. **Remember your input counts!!**

de KA8SCP



This column is for HF AM, CW, SSB, RTTY and FAX reception reports, note, articles, and questions related to HF utilities. Services covered in this column include aeronautical, coastal/marine, weather, government, military and 'spy' stations — essentially everything except broadcasting, CB and amateur radio.

Send reports to: Geoff Halligey, 85 Southwood Road, Cottingham, England, HU16 5AJ.

IMMARSAT

The International Marine Satellite Organisation is at present available through the Atlantic, Pacific and Indian Oceans, except for a zone in the Pacific along the west coast of South America at about 104° W. The Polar regions are also not covered.

INMARSAT is now planning to extend its network so that any suitably equipped vessel can get immediate and automatic shore contact by telephone, telex or computer from anywhere in the world.

Ships equipped with INMARSAT communicate with shore links via a satellite and one of the Coast Earth Stations. Calls between ships can be routed via two satellite links and one or two Coast Earth Stations depending on the location of the ships.

There are now 12 Coast Earth Stations in the system. By ocean region they are:

ATLANTIC	PACIFIC	INDIAN
Southbury, USA	Santa Paula, USA	Yamaguchi, Japan
Goonhilly, UK	Ibaraki, Japan	Eik, Norway
Umm-el-Aish, Kuwait	Singapore	
Pleumeur Bodou, France		
Tangua, Brazil		
Odessa, USSR		
Fuchino, Italy		
Planned are:		
Jeddah, Saudi Arabia	Nakhodka, USSR	Jeddah, Saudi Arabia
		Nakhodka, USSR
		Thermopylae, Greece

FREQUENCY REPORTING - RTTY & FSK

Reports of the frequencies of RTTY and FSK transmissions are sometimes in doubt because different operators use different methods of listing the received frequency.

RTTY and FSK channels are always listed by their 'assigned' frequencies - that is, the centre of the F1B emission, or zero beat; the mid-point between 'mark' and 'space'. The suppressed carrier is set 1700 or 1500 Hz below the assigned frequency, according to the equipment in use, but as we do not know what equipment <u>is</u> in use, we quote the assigned frequency and sort it out from there.

FREQUENCY REPORTING - SSB

SSB signals are, however, listed by their carrier frequency (the point at which the signal is resolved into clear speech). USB carriers are always 1400 Hz below the assigned frequency; LSB carriers always 1400 Hz above it. As we therefore do not normally need to know the assigned frequency, we alsways quote and list the carrier frequency, stating LSB or USB.

ODD MORSE

What do members make of this ? On the morning of 8th December, by chance, I was tuning past 11510 kHz and heard a few VVVs and the

call MKI - then R GM OM QSA4 QRU NIL K (break) R OK TKS also 73/88 GB VA.

British services station ? The call fits. Hams ? Not on that frequency. Nothing else was heard on that day, but on the next (9th Dec) it came up again, but with the call BSE. And so each day, with a new call and similar ham-type chat; no messages yet, always 'QRU'.

Calls so far used have been POU, TRF, BSG, TEW, RFG, WQ4 and F5E. The frequency and signal strength place this station in the Middle East or North Africa at a guess. The whole transmission is over in a couple of minutes, starting promptly at 0845 UTC. Someone, somewhere, is awaiting a message. What happens then ?

Here are a few more unidentifiable Morse transmissions. Traffic usually consists of groups of letters or figures, but sometimes there are just endless calls. Boring to listen to:

6517.0	CW	.... VVVs 0654 (HS)
6532.5	CW	.... Two stations; also 6552.5, 6753.5 and 7755.0 (HS)
6560.0	CW	.... Unid code (HS)
6680.0	CW	.... VVVs 0414 (HS)
6733.0	CW	.... Cyrillic tfc (HS)
6796.0	CW	35KW VVVs, vy fast 0638 (HS)
6802.0	CW	L2PG Two stations, vy fast 0641 (HS)
6841.0	CW	.... 'VAVN AUDN' 0332 (HS)
6858.0	CW	.... unid cut noughts FSK (HS)
6915.0	CW	.... SI SI SI 0556 (HS)
7567.2	CW	4AZ clg ENO 1131 (C)
7571.0	CW	.... unid 0324 (HS)
7589.5	CW	.... Two stations, Cyrillic 0643 (HS)
7632.0	CW	.... unid coded tfc 0344 (HS)
7669.0	CW	.... 5LG QJD 0655 (HS)
7787.0	CW	.... as 6796.0 0803 (HS)
11041.0	CW	.... Cyrillic 1052 (C)
11517.0	CW	J54D clg ?BKA QRK? 1030 (C)
11564.0	CW	GNLG clg 914Z QSV K 1052 (C)

CHANNEL MARKERS

This month (December) brings in a crop of new Channel Markers:

3086.0	CW	VVV	1715	(C)
3592.0	CW	PPP	2350	(C)
3635.0	FSK	UUU	1519	(C)
3640.0	FSK	VVV	1517	(C)
6703.2	CW	KKK		(HS)
6671.0	CW	XXX	1358	} These two in parallel (C)
6771.0	CW	XXX	1359	}
6803.5	CW	SPW	0540 sends 'DE SPW' then a data burst (HS)	
7628.0	CW	AAA	0850: this is a Sat. and Sun. only station in parallel with 9352.0 mentioned in Feb. newsletter.	
7688.0	CW	AAA	not in parallel with other A's (C)	
7894.5	CW	AAA	0559 (HS)	

CARRIER CLUSTERS - AND OTHERS

Hugh Stegman (CA-LA-472), besides contributing wide-ranging logs, has noted carrier clusters including what appeared to be a set of 27 evenly spaced carriers clear from 6899.7 to 6912.0 kHz. The call 'America one Alfa' was heard. Another cluster on 7640.0.

Hugh also reports hearing what he describes as 'whooshes', sometimes, for example 300 kHz wide and once taking out the whole of the 40-meter band. Others also heard such as 6695 to 6709 and 6870 60 7200.

The 'woodpecker' has been noted around 6445 in the U.S. (a record low ?) and in the U.K. spread from 11160 to 11207, but with a higher pulse repetition rate than normal.

FM telecom around 6840 kHz proved to be a harmonic of some cordless phones in the U.S., quite a common phenomenon, says Hugh.

THIS MONTH'S LOG

2860.0	USB	....	Honolulu VOLMET	0700
4307.0	CW	RCV	Moscow clg UCMR	1409 (C)
4428.7	USB	....	'5TH DISTRICT OPS' rescue during hurricane 'Gloria'	
5445.0	USB	....	Russian 'hysterical' clg 'PORUS' (C)	
6509.5	USB	....	Russian 'hysterical'	0700
6514.8	USB	....	Gen. Pacheco Radio new freq	0700
6428.5	CW	VHP	COMMSTA Canberra, Australia	1530 (C)
6428.5	CW	VIX	Canberra, Australia	1635 (C)
6464.0	CW	VIS	Sydney Radio, Australia	1700 (C)
6750.0	USB	BZ158	unid, coded tfc + autovon USAF	0639
6895.0	CW	WAT56	unid wkg MPB	
7521.5	CW	FDY	Orleans, France, FAF	1118 (C)
7627.0	CW	KWS78	Athens, Greece. U.S.Embassy	2340 (C)
7726.0	CW	AOK	Rota, Spain, USN -new freq ?	1241 (C)
7778.0	CW	RCFN	VVVs	
7819.7	CW	FDY	Orleans, France, FAF	1055 (C)
9973.5	CW	CCS	Santiago Naval Radio, Chile	0812
11048.0	CW	RIW	Khiva Naval Radio, USSR, clg RMZU	0858 (C)
11608.0	CW	RCV	Moscow, USSR, clg ROD	1515 (C)
19098.0	CW	RCV	Moscow, USSR, clg RCMJ	1220 (C)

(C) means heard here in Cottingham, England; other unattributed entries are from Hugh Stegman.

SIGNOR MARCONI

This column is being written on December 17th; let us pause to remember that this date marks the 84th anniversary of the first wireless telegraphy across the Atlantic Ocean, between Poldhu in the UK and St. Johns in Newfoundland.

Before this feat most scientists thought that the curvature of the earth would limit the propogation of radio waves to about 200 miles; Marconi proved how wrong they were.

Thus in the span of a lifetime we have witnessed some faltering beginnings to the sophisticated radio developments of today, as are described in the pages of this Newsletter; what of the next eighty years ?

Best (belated) wishes to all in 1986.

Geoff

BUSINESS, ETC.

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufacturers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.) General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to:

Send Business monitoring information East of the Mississippi to:
Brandt Niemuth, P.O. Box 541, Rosemont, IL 60016

Welcome to yet another of "You Know What" columns. As I write this, it is the week between Xmas and New Years, when we had a little snow the day after Xmas, which made driving a bit hazardous and me glad I had my scanners. Thuoght for the month; Joint account: Checkmate. For the goodies this month comes only one contribution (column ready at that, which I am gratful for) from Larry Smith (MI-001). Thank you, Larry.

SERVICES MONITORED IN SOUTHEASTERN MICHIGAN

[THE FOLLOWING ARE "PAIRED" FOR EASE OF USE]

ANN ARBOR:

807.5125	KNGK-457	ANN ARBOR TRANSPORTATION AUTHORITY
852.5125	KNGK-457	ANN ARBOR TRANSPORTATION AUTHORITY
807.5375	KNGK-457	ANN ARBOR TRANSPORTATION AUTHORITY
852.5375	KNGK-457	ANN ARBOR TRANSPORTATION AUTHORITY

DETROIT:

810.9125	KNGD-816	GENERAL MOTORS REASEARCH
855.9125	KNGD-816	GENERAL MOTORS REASEARCH
815.7625	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
860.7625	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
815.7875	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
860.7875	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
815.8125	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
860.8125	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
815.8375	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
860.8375	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
815.8625	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
860.8625	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
815.8875	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
860.8875	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
815.9625	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
860.9625	KNER-493	SOUTHEASTERN MICHIGAN TRANS. AUTHORITY
816.0125	KNGR-353	SERVI CAR OF MICHIGAN
861.0125	KNGR-353	SERVI CAR OF MICHIGAN
818.0125	KNHC-682	ALL ELECTRONICS SYSTEMS
863.0125	KNHC-682	ALL ELECTRONICS SYSTEMS
819.0125	KNHH-463	OPPORTUNITY FAST FREIGHT
864.0125	KNHH-463	OPPORTUNITY FAST FREIGHT
819.3875	KNER-490	FEDERAL EXPRESS CORPORATION
864.3875	KNER-490	FEDERAL EXPRESS CORPORATION
820.0625	KNHH-533	ALLSTATE TOWING, INC.
865.0625	KNHH-533	ALLSTATE TOWING, INC.
820.2625	KNEP-571	I.B.M. RESEARCH & DEVELOPEMENT
865.2625	KNEP-571	I.B.M. RESEARCH & DEVELOPEMENT
853.0375	KNER-495	TAYLOR AMBULANCE COMPANY [NOT PAIRED]

FLINT:

820.2625	KNEP-570	I.B.M. RESEARCH < DEVELOPEMENT
865.2625	KNEP-570	I.B.M. RESEARCH < DEVELOPEMENT

---- LARRY [MI-001]

Send Business monitoring information West of the Mississippi to:
Cliff Polkinghorn, 14310 Acacia St., San Leandro, CA 94579

WELCOME---
The following info comes again from the FCC MICRO-FICHE, except as noted below.

CALIFORNIA SAN FRAN BAY AREA (Scanners Unlimited 1199A Laurel San Carlos, CA 94070)

463.500	BROADMOOR SERVICE	DALY CITY	WCN61
note;	CENTER ONE		
"ID:s"	BROADMOOR ONE		
	BROADMOOR THREE		
	BROADMOOR BASE		

463.525	JAYS TOWING SERVICE	REDWOOD CITY	KTF342
463.700	PENNY's TOWING	SAN JOSE	WQQ585
464.050	BILLS TOWING	SAN LEANDRO	kncx289
464.950	ADLER AUTOMOTIVE CTR.	CONCORD	KCA520
483.8125	MARIN TOWING	SAN RAFAEL	KNQ221
484.0875	A & A TOWING	SAN FRANCISCO	KNQ208
490.7375	E 14th AUTO CLINIC	OAKLAND	KNP521
30.76	SECURITY ALARM SVC.	OAKLAND	KZM284
151.715	AMERICAN PATROL SVC.	VARIOUS	VARIOUS
151.805	MPS SECURITY SVC.	BRENTWOOD	WYF571
460.975	DENELECT ALARM CO.	SAN CARLOS	KBE727
461.100	S.F. PATROL SPECIAL POLICE	SAN FRANCISCO	KE3566
461.175	EAST BAY COUNTY PATROL	CONCORD	KIT226
490.1625	JERRY's AMBU-CAB SVC.	PACHECO	KYD853
484.1875	WILLOWS SHOPPING CTR.	CONCORD	KNS695

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

FROM DON CASM032

WINTERLAND (Post & Steiner S.F.)
464.3125 (M)
464.550
464.8125 (M)
151.625---CONCESSIONS

note: Don advises us that "WINTERLAND" will become a victim of the wreckers ball soon. I print these frequencies as a reference. Some of you may wish to search in and around these freq. for a similar business in your area.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

NOGALES ARIZONA

151.775	CLEAR VISION TELEVISION	KTW320
151.805	WEST MEXICO VEGETABLES	WSO635
151.865	DOYLE EXTERMINATING	KNBZ952
151.865	LIBERTY TRACTOR	KNCA352
152.300	NOGALES SHEET METAL	KNCT829
154.540	CITY TAXI	KVQ709
154.515	SOTO BUS	WRW421
461.275	FRONTIER HEATING	WQE476
461.275	FIKE PLUMBING	WSH228
463.325	NOGALES SECURITY SVC.	KNFR843

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

PHOENIX ARIZONA

72.30	GENCOM INC.	KOE257
72.60	GENCOM INC.	KOH280
75.00	REPUBLIC AIRLINES	WRLT4802
75.00	CUTTER AVIATION	WRLT4825
75.00	T.W.A.	WRLT4989

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

OVERCAARD ARIZONA

461.025	WALLY SMITH LOGGING	WXP788

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor radio listening and questions to:

Pob Berezowski, 310-4045 Rae St, Regina, Saskatchewan, Canada S4S 6Y8

Hello again everyone and welcome to the March Canada column. It's blowing pretty hard out there, so I'm glad I'm inside. I've still got a few letters left, but I have answered the bulk of them. (Bulk is the key word here.) Lots of material this month, so lets get started.

First of all, I'd like to print the "Top 12" from each member who sent in a reply to the recent member survey:

Tom (CANA-084)

41.960 Ont Prov Police (OPP)
42.020 OPP

Guy (CANA-031)

42.060 OPP Base
42.220 OPP Mobile

154.370 Middlesex County Fire
163.590 CFPL-TV News (London)
142.335 Strathroy Police
150.100 Ont Prov Ambulance channel
142.305 London Police
142.035 London Police
154.635 London Fire Dept
154.810 London Fire Dept
152.810 London Mobile Phone
152.630 London Mobile Phone
123.450 Air-to-Air private chats
147.180 Radio Amateur rptr - London
147.120 Radio Amateur rptr - Chatham
145.450 Radio Amateur rptr - London

153.980 Barrie Fire (Working)
46.940 Ont Natural Resources
142.110 Bradford Police
142.080 Alliston Police
142.635 Barrie Police
46.820 Ont Natural Resources
142.575 Innisfil Police
142.770 Ont Police Mutual Aid
154.070 Ont Fire Mutual Aid
154.370 Simcoe County Fire
154.860 Innisfil Fire Dept
163.530 Vespra Twp Fire Dept
149.440 Ambulance
150.100 Ambulance
149.725 Ambulance
149.170 Ambulance
149.605 Ambulance
154.540 Ambulance
158.250 Ont Hydro Barrie area
49.660 Ont Hydro Alliston
155.310 Burns Security Barrie
158.400 Ont Motor League

Brian (CANA-077)

153.770 Vaughan Fire Dept
150.100 Ont Provincial Ambulance
149.370 Mississauga Amb Dispatch
149.440 Mississauga Amb Dispatch
149.605 Mississauga Amb Dispatch
152.000 Mississauga Amb Dispatch
152.375 Toronto Amb Dispatch (NW)
151.820 Toronto Amb Dispatch (NE)
150.530 Toronto Amb Dispatch (SW)
148.165 Toronto Amb Dispatch (SE)
154.800 Brampton Fire Dept

Anonymous

414.7625 Toronto Fire Dispatch 1
415.3125 Toronto Fire Dispatch 2
411.9875 Toronto Fire Operations
411.7875 Toronto Fire TAC 2
148.360 Toronto Amb Supervisor
453.7875 CITY-TV News F-1
149.605 Toronto Amb ALS ch 2
143.340 Toronto Amb ALS ch 3
412.3125 Toronto Fire Supervisor
412.8125 Toronto Fire Marshall
411.8625 Toronto Fire TAC 4
149.410 Toronto Amb Tactical
152.090 CFTO-TV News (Toronto)

Gilles (CANA-004)

412.7625 Montreal Fire Dispatch Ch 1
412.4875 Montreal Fire Ch 2
410.1625 Boucherville Police/Fire Dept
154.710 Longueuil Fire Dept
412.2875 St Leonard / Anjou Fire Dept
155.640 St Hubert Fire Dept
412.4375 West Island of Montreal Fire Mutual Aid
154.280 Brossard Fire Dept
411.1125 Varennes Police/Fire Dept
410.2875 St Bruno Fire Dept
166.650 Que Prov Police Ch 10 (Ste Julie)
154.740 Montreal Police Dept TAC
412.2625 St Bruno Police Dept
412.7875 St Hubert Police Dept
412.0625 Longueuil Police Dept
412.5875 Longueuil Police Dept
450.875 CFCF-TV News (Montreal)

A big thank you goes to all of the members mentioned above for taking the time to send in the survey. Our next batch of material comes from one of our regular contributors, Harry (CANA-074). He's written several letters recently, with material on a variety of subjects.

Harry says that the Calgary Police Service installed their Mobile Data Terminals (MDTs) on Aug 15/85. This is one phase of the $4.9 million Computer Aided Dispatch system. The MDTs are being used initially in 32 cars in District 6, on the south side of Calgary. I happened to be in Calgary recently, and found the MDTs using 462.7125B/467.7125M. The calls were being computer dispatched, although there was still a lot of voice communications. Voice dispatching for other parts of the city has not changed (yet). The entire CAD system should be operational by the summer of 1987, about 6 months or so ahead of the 1988 Winter Olympics.

The Calgary Police have also acquired a $1.2 million computerized fingerprint identification system. The computer allows rapid identification of a fingerprint, even a partial print, by a matching search through all 100,000 prints on file.

Harry also adds that Edmonton Co-Op Cabs also have MDTs installed in their taxis. It appears that the frequency 462.775 is used, but this is not confirmed. Another new frequency Harry has found is 453.9875 CYT532 used by Edmonton International Airport Park and Ride. Harry also found that security for the Alberta Government Telephones (AGT) tower in Edmonton are on 464.050 with callsign CGF739.

Here are some additions to radio codes used by various agencies:

Edmonton Amb Authority	10-50	ALS
RCMP (Alberta)	10-36	Robbery
	10-71	Vandalism/Wilful Damage
	10-72	Alarm ?
	10-75	Off for Lunch ?
	10-77	Off at Residence ?

Harry also put together this list of frequencies used in federal and provincial jails in Alberta:

Federal Prisons	151.145(S)	Bowden Institute
		Drumheller Institute
	151.160(S)	Edmonton Grierson Centre
	151.325(S)	Drumheller Institute
		Edmonton Institute
	151.475(S)	Bowden Institute
		Drumheller Institute
		Edmonton Institute
		Edmonton Grierson Centre
	173.475(S)	Bowden Institute
		Drumheller Institute
		Edmonton Institute
	412.4625/417.4625	Edmonton Institute
	413.9375(S)	Edmonton Institute
	466.2375/468.9375	Edmonton Institute
	469.4875(S)	Calgary ?
Provincial Prisons	154.340(S)	Edmonton Belmont Rehab Centre
	452.0625/457.0625	Calgary
	452.8625/457.8625	Fort Saskatchewan Corr. Inst.
		Calgary Remand Centre
		Peace River
		Lethbridge
	452.9625/457.9625	Calgary Spy Hill Corr. Inst.
		Grande Cache
		Peace River
	453.4625(S)	Calgary Bow River Corr. Inst.
		Grande Cache
		Lethbridge
		Fort Saskatchewan
		Peace River
		St Paul

Harry passed on a couple of articles regarding an expansion of the RCMP radio system across Alberta. The new system will cost $17 million, and will require 30 more people to operate. Because the force is in a "no grow" situation, these officers will be transferred from detachments around the province. For example, 14 officers are being transferred from the southern part of the province (Lethbridge sub-division).

The new system will provide 24 hour centralized complaint and dispatch service. Once in place, citizens will have better contact with the RCMP, without having to call Zenith numbers. The system headquarters will be in Edmonton, with stations in Calgary, Lethbridge, Red Deer, Peace River, Edson and St. Paul.

Radio coverage across the province will also be improved. Currently there are a lot of dead spots. In order to fill in the dead spots, it will probably be necessary to use extra channels, with new, higher channel capacity radios in the patrol cars. (For example, BC have just gone to 12 channel radios)

(ed note: On a related topic, the RCMP in Saskatchewan are also phasing in new radios. The new radios have at least 13 channels, and the channel numbering has also been changed. A new frequency is used at Fort Qu'Appelle 155.610/155.040in, channel 6 on the new radios. More details as they become known)

Harry also passed on an article that appeared in the Radio Communications Report. This is a magazine dealing with communications, and contains a lot of information on new products. If any member wishes more information on receiving this publication, please drop me a line at the address above. Anyway, the article states that NovaTel has been awarded a $3 million contract to supply the NovaTel Aurora 800 cellular telephone system for Calgary and the surrounding area. The system will be operated by Alta Govt Telephones (AGT), and will join the existing Aurora 400 province-wide cellular system. Both systems will provide service for the 1988 Winter Olympics.

Harry included an article that appeared in the Edmonton Journal on Nov 29/85. The author describes his first experiences with a Cantel cellular telephone unit installed in his 1976 Hornet. The article is a light-hearted look at this "revolution in communications." The article does state that the Cantel network should be in-service nation-wide by 1987. The costs of the phones vary from $2400 for a basic model to almost $6000 for a fully portable briefcase model. Service charges are $15/month, plus a per-minute charge. The average Cantel customer is charged about $100-$150 per month. If any member is interested in reading the article, I can supply a copy for an SASE.

With the purchase of a Bearcat BC 800 XLT, Harry has moved into 800 MHz. He reports that the Motorola "Privacy Plus" trunked system operates on the following frequencies:

858.4875	858.8875
858.6125	858.9875
858.6625	859.1125
858.7375	859.2375
858.8625	

Harry suggests that the best way to monitor the system is with no delay and the control channel locked out. (The control channel is a data link used for system operation. The control channel also changes daily.) Harry has heard the S.P.C.A, Alberta Social Services, and a Private Investigation company using the trunked system.

Harry also reports cellular telephones operating on:

875.975	876.200
876.000	876.225
876.050	876.250
876.075	876.550
876.150	

Does anyone know where a person can take a submarine ride, then go ice skating, and then go shopping without leaving the building? Well, tourists are flocking from all over to the West Edmonton Mall, now the largest shopping mall in the world. This place is more like Disneyland than a shopping mall. This fall, Phase III opened, expanding the mall to over 5 million square feet. The mall has parking for 50,000 cars, and security is out on Saturdays directing cars. On some days, you can have over 200,000 people there. That's a small city, and just like Disneyland there is a lot of radio used. Harry has written a summary of information on the mall:

The West Edmonton Mall has over 800 stores to shop in, a Fantasyland amusement park, a full sized hockey rink, submarine rides, dolphin shows in the deep sea adventure area, a full size replica of a Spanish Galleon, a small size golf course modelled after Pebble Beach in California, and much more.

In the summer of 1986, the mall will grow again to include a Fantasyland expansion, the Fantasyland Hotel (about 10 storeys I think -rb) and a year-round indoor water park. It will include a wave pool, water slides, and indoor tanning under artificial sun.

Here are some frequencies for the mall:

458.1875(S) West Edmonton Mall Security

"Central Dispatch" (which can be viewed from the public mall area) uses the Edmonton Police 10 code,(see the Nov 85 RCMA) with the addition of 10-25 Missing Child. All 500 units are Security, and dispatch uses an alert tone for important messages.

453.6125(S) West Edmonton Village Security

The Village is a large housing development, owned by the same family as the mall, located just south of the shopping centre. They also use the Edmonton Police 10 code, and all 400 units are Security.

453.200(S) Deep Sea Adventure (Submarine rides)

The submarines identify as Polaris 1 through Polaris 4.

458.4875(S) Fantasyland Amusement Park
453.4125(S) Mall Maintenance

The major department stores in the mall also have their own security people protecting against shoplifters:

469.2125(S) Woodwards
453.5375(S) The Bay
453.7375(S) Eaton's
464.0875(S) Sears

Have fun shopping everyone! Remember, everything in the mall is indoors. I don't know how anyone can find time to shop in that place, but the retailers report that sales in the mall range from very good to super high. Thanks very much for all of the information, Harry. Your efforts are greatly appreciated, as always.

I just have room for one more short note from Bruce (CANA-019). His tip is for the owners of Pro-30 scanners. In the Sept 85 "Your Thoughts" (pg 6), mention was made of a right-angle BNC adaptor (Radio Shack part # 278-116) that is very handy for use with a Pro-30. Well, Bruce has found out that this particular item has been discontinued in the Canadian 1986 catalog, and is being cleared out of the stores. So if anyone wants to buy this little gem, they had better hurry or they will be out of luck. Thanks for writing in Bruce.

That's about all for this month. Next month I'll have some information for the BC Lower Mainland, as well as some 800 MHz frequencies for London. Until then, merry monitoring.

COMMUNICATIONS PROFILE

Joe M. Lewis, 750 Scotland St., Dunedin, FL 33528

This column is for special projects that explain various systems in detail. Frequencies and radio codes of not only municipal agencies and certain federal government agencies may be listed, but also large businesses and corporations. The contribution must be lengthy enough that publishing it in one of the regular columns would not be possible. If you are inclined to submit a report as the one below appears, please follow No.7 in the inside front cover of the Newsletter.

WELCOME TO THE MARCH COLUMN, THIS TIME IS INFO ABOUT WASHINGTON, D.C. THE POLICE INFO IS FROM THE PD AND THE CITY INFO IS FROM THE CITY RADIO REPAIR SHOP AND MAYOR'S COMMAND CENTER.

FIRST, A LOOK AT THE PAST, OF THE FREQUENCIES.

154.860 WAS ZONE 2 DISTRICT 2/3 KLG-605
154.900 WAS ZONE 3 DISTRICTS 4/5 KLG-616
155.31 WAS CITYWIDE 2 KLG-613
155.415 WAS DISTRICT 1 AND CITYWIDE 3 KLG-614

THEN THEY WENT TO UHF IN 1970, THE FREQS CHANGED TO:

460.025	ZONE 1 DISTRICTS 6/7	KLG-617
460.100	ZONE 2 DISTRICTS 2/3	KLG-605
460.200	ZONE 3 DISTRICTS 4/5/	KLG-605
460.150	TAC 1	KLG-609
460.250	TAC 2	KLG-610
460.275	SOD	KLG-611
460.325	CITYWIDE 1	KLG-615
460.350	TAC 5	KLG-604
460.400	citywide 2 traffic	KLG-613
460.425	TAC 6/7	KLG- 606
460.450	TAC 3	KLG-607
460.475	TAC 4	KLG-603
460.500	DISTRICT 1	KLG-614

THE CURRENT POLICE FREQUENCIES ARE:

460.350	DISTRICT ONE DISPATCH	KLG-604
460.250	DISTRICT TWO	KLG-610
460.025	DISTRICT THREE	KLG-617
460.500	DISTRICT FOUR	KLG-614
460.200	DISTRICT FIVE	KLG-616
460.150	DISTRICT SIX	KLG-609
460.475	DISTRICT SEVEN	KLG-603

THERE IS NO DISTRICT 8 AND NO PLANS FOR ONE.

460.425	HQ OFFICALS	KLG-606
460.275	SOD	KLG-611
460.325	CITYWIDE	KLG-615
460.100	NORTHWEST TAC	KLG-605
460.400	SOUTHEAST TAC	KLG-613

SCOUT 11-32	DISTRICT 1	WAGONS 33-34
SCOUT 63-84	DISTRICT 2	WAGONS 63-64
SCOUT 85-104	DISTRICT 3	WAGONS 105-106
SCOUT 119-137	DISTRICT 4	WAGONS 116-117
SCOUT 138-157	DISTRICT 5	WAGONS 158-159
SCOUT 40-55	DISTRICT 6	WAGONS 56-57
SCOUT 171-189	DISTRICT 7	WAGONS 190-191

SCOUTS ARE THE NAME OF THE PATROL CARS, THE UNMARKED CARS ARE CALLED CRUISERS.

CRUISER IDENTIFICATION NUMBERS:

200 TO 203	DISTRICT ONE LIEUTENANTS
204 TO 207	DISTRICT TWO LIEUTENANTS
208 TO 210	DISTRICT THREE LIEUTENANTS
211 TO 213	DISTRICT FOUR LIEUTENANTS
214 TO 216	DISTRICT FIVE LIEUTENANTS
217 TO 219	DISTRICT SIX /SEVEN LIEUTENANTS
220	DISTRICT ONE SARGENT
230	DISTRICT TWO SARGENT
240	DISTRICT THREE SARGENT
250	DISTRICT FOUR SARGENT
260	DISTRICT FIVE SARGENT
270	DISTRICT SIX SARGENT
280	DISTRICT SEVEN SARGENT

300	SUPERVISORS	700's	DISTRICT DETECTIVES
310	HOMICIDE SQUAD	800's	HEADQUARTERS SPECIAL UNITS
320's	ROBBERY SQUAD	TAC	UNDERCOVER UNITS
330's	CHECK AND FRAUD SQUAD	JUNEAU	HELICOPTERS
340's	BURGLARY SQUAD	MOTOR	CYCLES
350's	SEX SQUAD		
360's	SECTOR CRUISERS		
400's	TRAFFIC DIVISION		
520's	DISTRICT YOUTH DIVISION		
530 TO 550	vice and narco		
590's	DISTRICT K-9 UNITS		
600, TO 660	SOD UNITS		
670	E.O.D. BOMB SQUAD		
690	DISTRICT K-9		

TEN CODES USED:

10 - 4 ACKNOWLEDGEMENT TWO MAN UNIT
10- 8 IN SERVICE
10 - 30 WALES HIT
10- 33 OFFICER IN TROUBLE
10- 89 BOMB THREAT
10-99 ACKNOWLEDGEMENT, ONE MAN UNIT
CODE ONE EMERGENCY
CODE TWO NORMAL SPEED

ALARM CODES:

A- OFFICE BUILDING
B- WAREHOUSE
C- SCHOOL
D- BANK
E- OTHER BUSINESS
F- CONSTRUCTION SITE
G- VEHICLE
H- PRIVATE DWELLING

CAUSES:

1 - ACCIDENTALLY TRIGGERED
2- FORGOT TO DEACTIVATE
3- EQUIPMENT MALFUNCTION
4- WIND RELATED
5- TESTING
6- SUSPICIOUS PERSON
7-, INJURY OR ILLNESS
8- POWER FAILURE
9- WATER PRESSURE
10- STEAM PRESSURE
11- GAS LEAK
12- FIRE RELATED
13 - WORKING ON PHONES

D.C. FIRE DEPARTMENT CAR NUMBERS AND LOCATIONS

CAR 1	radio repair	at communications div
CAR 2	FIRE ALARM TROUBLE	AT COMMUNICATIONS DIV.
CAR 3	COMMUNICATIONS OFFICER	AT HOME
CAR 4	FIRE ALARM TROUBLE	AT COMMUNICATIONS
CAR 5	CANTEEN	AT ENGINE 31
CAR 6	DEPUTY FIRE MARSHAL	AT ENGINE 26
CAR 7	FIRE INVESTIGATOR	AT ENGINE 4
CAR 8	BFC APPARATUS	AT APPARATUS DIV.
CAR 9	REPAIR TRUCK	AT APPARATUS DIV.
CAR10	REPAIR TRUCK	AT APPARATUS DIV.
CAR 11	FIRE INVESTIGATOR	AT ENGINE 4
CAR 12	PUBLIC ASSAEMBLY	AT COMMUNICATIONS
CAR 13	TRAINING SCHOOL	AT TRAINING DIV.
CAR14	FD CRANE	AT APPARATUS DIV
CAR 15	DOCTOR	AT HOME, PRIVATE AUTO
CAR 16	APPARATUS TRUCK	AT APPARATUS DIV.
CAR 17	APPARATUS CAR	AT APPARATUS DIV.
CAR 18	APPARATUS TRUCK	AT APPARATUS DIV.
CAR 19	ADMINISTRATIVE	AT ENGINE 4
CAR 20	PROPERTY SECTION CAR	AT COMMUNICATIONS DIV.
CAR 21	PROPERTY SECTION TRUCK	AT COMMUNICATIONS DIV.
CAR 22	CHAPLAIN	PRIVATE AUTO
CAR 23	AMBULANCE BFC	AT ENGINE 15
CAR 24	TRAINING SCHOOL	AT TRAINING DIV.
CAR 25	MAIL CAR	AT COMMUNICATIONS
CAR 26	FIRE PREVENTION	AT ENGINE 6
CAR 27	LINE TRUCK	AT COMMUNICATIONS
CAR 28	FD BUS 1	AT TRAINING DIV.
CAR 29	FD BUS 2	AT COMMUNICATIONS
CAR 30	COMMUNITY RELATIONS	AT PRIVATE HOME
CAR 31	PROPERTY SECTION	AT COMMUNICATIONS
CAR 32	CLINIC LIASON OFFICER	AT TRAINING
CAR 33	METRO LIASON OFFICER	AT 614 H st NW
CAR 35	PUBLIC AFFAIRS	AT ENGINE 19
CAR 38	COMMUNITY RELATIONS TRUCK	AT ENGINE 6
CAR 39	APPARATUS TRUCK	AT APPARATUS DIV.
CAR 41	PROPERTY SECTION TRUCK	AT COMMUNICATIONS
CAR 42	AMBULANCE SUPERVISOR	AT 614 H ST. NW

WASHINGTON, D.C. FIRE DEPARTMENT

CHANNEL 1	DISPATCH	154.19 KGA-611
CHANNEL 2	FIREGROUND	154.235
CHANNEL 3	CHIEFS	154.205
CHANNEL 4	MUTUAL AID	154.28
AMBULANCE DISPATCHER		KGA-842 33.06
MAIN MEDIC CAHANNEL,6,		463.125 REPEATER

ENG 1,TRK 2 MED 11 BFC 2 TAU 2	2225 M STREET N.W.
ENG2 TRK 1 AMB 7	500 F STREET N.W.
ENG 3 AMBO 15	439 N.J. AVE N.W.
ENG 4 MED 1 RES 2	2531 SHERMAN AVE, N.W.
ENG 5 TRK 5	3412 DENT PLACE N.W.
ENG 6 TRK 4 RES 1 AMB 5 BFC 1	1300 N.J. AVE. N.W.
ENG 7	1101 HALF STREET N.W.
ENG 8 MED 9 AMB 16	1520 C STREET S.E.
ENG 9 TRK 9	1617 U STREET N.W.
ENG 10 TRK 13	1342 FLORIDA AVE N.E.
ENG 11 TRK 6	1338 PARK ROAD NW
ENG 12	1626 N. CAPITOL ST.
ENG 13 TRK 10 AMB 6 TAU 1	450 6th STREET SW
ENG 14 AMB 14 & 4	4801 NORTH CAPITOL ST.
ENG 15 TRK 16 RES 3 BFC 3	2101 14th STREET S.E.
ENG 16 TRK 3 BFC 6	1018 13th STREET NW
ENG 17	1227 MONROE STREET NE
ENG 18 TRK 7 BFC 7	414 8th STREET SE
ENG 19 TRK 19 AMB 12	2813 PENN AVE SE
ENG 20 TRK 12 AMB 8	4300 WISCONSIN AVE NW
ENG 21 AMB 2	1763 LANIER PLACE NW
ENG 22 TRK 11	5760 GEORGIA AVE NW
ENG 23	2119 G STREET NW
ENG 24 BFC 4	3702 GEORGIA AVE NW
ENG 25 TRK 8	3203 MARTIN L. KING AVE SE
ENG 26 TRK 15	1340 RHODE ISLAND AVE NE
ENG 27	4201 MINN AVE NE
ENG 28 TRK 14 BFC 5	3522. CONN AVE NW
ENG 29	4811 MACARTHUR BLVD NW
ENG 30 TRK 17 AMB 10 BFC 8	50 49th STREET NE
ENG 31 RES 4	4930 CONN AVE NW
ENG 32 MED 3 AMB 13	2425 IRVING STREET SE

ENG- ENGINE,TRK- TRUCK, MED- MEDIC, RES- RESCUE, AMBO, AMBULANCE
BFC- BATALLION CHIEF, TAU- TWIN ENGINE UNIT,
OTHER UNITS: SEARCHLIGHT WAGON AT ENG 9, SALVAGE WAGON AT ENG 24
GASOLINE TANK TRUCK AT ENG 27

PROVIDENCE HOSPITAL 37.98 KLJ-280
GEORGETOWN UNIVERSITY HOSPITAL 35.90 KLH-776
CITY GOVERNMENT FREQUENCIES FORM THE MAYOR's COMMAND CENTER AND THE CITY RADIO REPAIR SHOP:

37.10	TRASH COLLECTION KSO-592
37.94	SEWER DEPT. KGA-598
39.02	DEPARTMENT OF CORRECTIONS F1
39.08	DEPARTMENT OF CORRECTIONS F2
45.60	CIVIL DEFENSE F1 KLR-491
45.56	CIVIL DEFENSE F2 SAME
153.74	SCHOOL SECURITY KUJ-512
153.815	SCHOOL BUSES AND AMINT,SAME
153.98	UNIV OF D.C. KWE-379, D.C. ARMORY KDP-418 AND RFK STADIUM KBM-921
154.04	HEALTH DEPARTMENT KFV-983
155.715	D.C. GENERAL HOSPITAL KNCM-812
453.225	RECREATION DEPARTMENT KSV-783
453.450	HIGHWAYS KVV-390
453.525	D.C. GSA SPECIAL POLICE WZX-920
453.750	HIGHWAYS KVV-390
453.875	MOTOR POOL KLK-746
495.437	DOT TOW TRUCKS KMA-675
495.462	DOT PARKING ENFORCEMENT KMA-675

UNIVERSITIES IN D.C.:
GEORGE WASHINGTON CAMPUS POLICE 151.715 KJQ-813 COMFIRMED BY THEM
GEORGETOWN 151.685 KJI-224
ALSO 463.575 KNCT-276 AND 464.475 WST-474
AMERICAN UNIVERSITY 151.745 KJO-549 CONFIRMED
UNIVERSITY,OF D.C. 464.825 and 464.875 KKS-386
GEORGE WASHINGTON UNIVERSITY ON 464.925 WRJ-869 CONFIRMED

HOSPITALS IN D.C.:

WASHINGTON HOSPITAL CENTER	151.955	KVF-474
GEORGETOWN HOSPITAL	35.90	KLH-776
PROVIDENCE	37.98	KLJ-280
CAPITOL HILL	151.685	KSX-563
COLUNBIA	152.22	KQM-659
SIBLEY	154.515	KVK-777

HOSPITALS IN D.C. ON 163.250 DOCTOR PAGE:

GEORGE WASHINGTON	KRJ-648
GEORGETOWN	KVP-791
CHILDRENS NATIONAL MED CENTER	KZT-422

HELICOPTOR TO HOSPITAL 123.050

PEPCO IN D.C. 451.050 KWC-979
PEPCO MAIN OFFICE 451.250 KGD-833 ALL
C & P TELEPHONE REPAIRS 451.450 KRO-526 CONFIRMED

I AM WRITING THIS IN EARLY JANUARY, SO I HOPE EVERYBODY HAD A HAPPY NEW YEAR. NEXT MONTH WILL BE MONTGOMERY COUNTY MARYLAND EXECPT THE FIRE DEPT. WHICH WAS IN OCT. 1985 HOWEVER THER WILL BE A CORRECTION AND ADDITION.

REGARDS,

Joe

contact info wanted

This column has two purposes: to help members *contact* each other, and to help members obtain *information* directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interest, *this* is the perfect place for you to make known your interests. Remember — those who respond will do directly, so be sure to provide your phone number, the best time to be called, or your address. Write to:

Scott Mattson, 2820 Bridge Ave., Point Pleasant, NJ 08742

INFO WANTED: This member desires Codes & Signals used by Railroad Police Departments anywhere in the United States. I am planning an Amtrack trip for the summer of 1987. Will pay reasonable xeroxing costs or will swap local general frequency list. Also need study materials for Amateur Tech or General license and plans for building a code oscillator.
DAVE MARSHALL (OH-146) 50 Villa Road, Springfield, OH 45503-1036 (12/4)

WANTED: This member needs schematic diagrams and tuning procedures for the following scanners: UNIMETRICS DURASCAN-8 and TENNELEC MEMORYSCAN-2. Photocopies are OK.
RON KOSINSKI (IL-310) 3823 W. 76th St., Chicago, IL 60652 (12/17)

CONTACT WANTED: This member desires contact with owners of 800Mhz scanners. I need opinions about them and 800Mhz licensees in the Philadelphia area.
JOHN H. HART (PA-019) 9926 Haldeman Ave., Apt. 129-A, Philadelphia, PA 19115 (12/29)

Members are reminded of the 2 month time interval needed for publication of the Newsletter. Any member submitting dated material should do so well in advance of vacation, trips, etc. Thanks!

NOSO

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FCC TOPICS

George DuBois, Editor

FCC news and information of interest relating to two-way communications. Send comments and questions to:
George DuBois, 10048 NE Campaign, Portland, OR 97220

The Commission has amended its rules to allow the use of vacant UHF TV channels 14 through 69 for ENG and Studio-to-transmitter links. Such use is on a non-interference basis to existing and future UHF TV and Low Power TV stations and to land mobile (T-band) use where permitted, plus to any future use of the UHF TV band for land mobile use (p.34, Sept. column). The Commission also restructured the channelling plans in the 950 mHz and 2 and 7 gHz bands to encourage the use of narrow bandwidth emissions. In the 944 to 952 mHz band, STL channels are now 25 kHz apart beginning at 944.0125 mHz. They may be 'stacked' to provide bandwidths up to 300 kHz for an FM station or 200 kHz for AM stations. Existing channels spacing had been 500 kHz and severe shortages of spectrum exist in many cities. Increases in telephone company rates are expected to further encourage many radio stations to switch to radio links to their transmitters. Single Sideband emissions may also now be used. A licensee may still apply for a 500 kHz wide channel and lease excess capacity to other users if he desires. A new applicant may apply for a channel and ask that an existing licensee replace his existing equipment with narrowband equipment, as long as he bears the cost and ensures no degradation of signal quality or capability.

The FCC has terminated a proposal that would have required customer cellular equipment to have a convenient means of selecting either the wireline or non-wireline block of channels. All cellular radios must be capable of operation on all channels in both blocks, but some equipment being sold must be programmed internally to select the other cellular system block when no service is available in the 'preferred'

block. The petitioners in this proceeding had suggested that this eliminates competition, since it's mainly the wireline carriers who are on the air first and by selling equipment that doesn't permit customer selection of systems, discourages customers from switching systems. The Commission declined to adopt the proposal for a number of reasons, one being that they don't believe that this alone stifles competition. Carriers who are able to lure customers from competing systems must reprogram the mobile unit with a new telephone number in any case, so the cost of reprogramming the block selection function is negligible. Also, there is the incentive for all carriers to use switchable equipment, especially for customers who will use their telephones in other cities. Many carriers have roamer agreements among themselves and many times these agreements will be between wireline and non-wireline carriers, operating in either block. Also, many customers lease their equipment, so if they are going to change systems, they are going to get a new radio anyway.

The Commission made a number of minor amendments to the application procedure for cellular licenses in the markets below the top 120. Applications will no longer be subject to the strict scrutiny given those in markets 91-120. Although this prescreening ensures only qualified applicants are eligible for the license selection lottery, it also causes considerable delay in processing these applications before a lottery may be held. Examination will now only be done to the winning lottery application and any deficiency will result in its immediate rejection.Similarly, applicants no longer need submit evidence of financial qualification. This will only be required of the tentative lottery winner. Anticipating that these actions will significantly speed up the process, the Commission also announced filing dates for the remaining markets. Markets through 150 (Visalia, Ca.) were due in late February, through markets 180 (Springfield, Oh.) in mid-April, May 2 for markets through 240 (Texarkana,Tx.) and May 23rd for markets through 305 (Jersey Co., Il.). This will include just about all cities of any size.

The FCC has released a proposal to revise the channelling plans in the 2, 6 and 7 gHz Fixed bands. These bands are used for point-to-point links by various entities, including utilities, broadcasters and local governments.The proposal would create a few new channel pairs by the use of frequencies near the band edges and would impose minimum path lengths (to encourage licensees requiring a short path length to use channels in higher frequency bands, such as 17 gHz). Eligibility would also be broadened to include licensees in the Business Radio Service, who are not presently allowed to use the 2 and 6 gHz bands. Under this proposal, some modifications would also be made to the 2 and 7 gHz Broadcast Auxiliary bands, including allowing use by cable companies.

Another recent proposal would require licensees of Cellular systems in the below-90 markets to begin operation of their system within one year of the grant of their authorization or lose their license. Present rules require that the licensee complete construction to cover 75% of his market area within three years. This rule, which would remain in effect, obviously as written doesn't require the licensee to do anything for three years. This amendment would require that he construct at least part of his system within a year. It is hoped that this will accelerate the availability of service in the smaller cities and discourage the submission of insincere or speculative applications.

Finally, the Commission has denied a Petition for Reconsideration of the establishment of a voluntary monitoring organization, to monitor for rule violations in all radio services, including Aircraft, Amateur, CB and Marine. In denying the petition the Commission noted that such an action would require amendment by Congress, since the privacy provisions of the Communications Act presently only permit disclosure of communications in the Amateur and CB services. Noting the difficulties encountered in setting up such a monitoring program in the Amateur Radio Service, they state that setting up a program to monitor all services would be an immense project. They intend to review the present Amateur program before possibly implementing a similar one in the Citizens Radio Service, but in the meantime have no intention of approving any unorganized vigilante group.

FEDERAL GOV'T
and
MILITARY

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to:

Dennis Biagioli, 607 W. Pleasant Ave. Villa Park, IL 60181

Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

Greetings from the Windy City. Well, twenty miles west of it anyway. Here's hoping the March winds blow you much good will. And blows me lots of frequencies to pass on to you.

Here's a great example of what just one person can do for us. The next time you visit Las Vegas, here's much of what's listenable when you are trying to win enough money for that new Icom.

BOB McGOVERN (NV-???) sent this wonderful list from the Las Vegas, Nevada, area.

Freq.	Agcy	Location	Notes
138.2750	AF	Nellis AFB	Intermittent carrier
138.3000	AF	Southern Nevada	Radio techs
138.3250	AF	Las Vegas	Paging
138.5000	AF	Southern Nevada	Steady carrier
139.6500	AF	Nellis AFB	Data
139.8000	AF	Nellis AFB	Data
148.0100	AF	Southern Nevada	C.A.P. or MARS
148.0750	AF	Nellis AFB	Flightline ops
148.1750	AF	Nellis AFB	Flightline ops
148.1850	AF	Nellis AFB	Flightline ops
148.3000	AF	Nellis AFB	Flightline ops
148.3250	N	Fallon	No details
148.3500	DOE	Nevada Test Site	Steady carrier
148.4000	AF	Nellis AFB	Flightline ops
148.4500	AF	Nellis AFB	Agressor Sqdn flightline ops
148.5000	AF	Nellis AFB	Security
148.5250	AF	Nellis AFB	Base ops & emergencies
148.7000	AF	Nellis AFB	Flightline ops
149.2650	AF	Nellis AFB	Flightline ops
149.3000	AF	Nellis AFB	Flightline ops
149.3250	AF	Nellis AFB	Flightline ops
149.4750	AF	Nellis AFB	Flightline ops
149.5000	AF	Nellis AFB	Flightline ops
149.5250	AF	Nellis AFB	Flightline ops
149.5500	AF	Nellis AFB	Flightline ops
149.5650	AF	Nellis AFB	Flightline ops
150.0500	AF	Nellis AFB	Flightline ops (humorous)
150.1750	AF	Southern Nevada	No details
150.2000	AF	Southern Nevada	Paging - same as 138.3250
162.2500	BOR	Colorado River	Construction (out = 163.0500)
163.0500	BOR	Boulder City	Repeats 162.2500
163.3750	AF	Nellis AFB	Security (repeats 165.0625)
163.4625	AF	Nellis AFB	Base engineer
163.4875	AF	Nellis AFB	Main base security
164.0250	DOE	Nevada Test Site	simplex
164.1000	DOE	McCarran Airport	Vehicle activity
164.2500	DOE	Corey Peak	simplex
164.4750	BOR	Boulder City	Security
164.5750	BOR	Colorado River	Data
164.7750	DOE	Nevada Test Site	Net-6
164.9625	AF	Nellis AFB	Flightline ops (munitions)
165.0375	AF	Ind. Spring	No details
165.0625	AF	Nellis AFB	Area-2 security (out = 163.3750)
165.0875	AF	Nellis AFB	No details
165.4125	EPA	Las Vegas	Repeater & simplex
166.2250	DOE	Nuclear Test Site	No details
166.3000	LMNRA	Southern Nevada	Primary (in = 166.9000)

166.9000	LMNRA	Southern Nevada	Repeats 166.3000
167.8250	DOE	Nevada Test Site	Repeater
167.8500	DOE	Nevada Test Site	No details
167.8750	DOE	Nevada Test Site	Repeater Net-14
167.9250	DOE	Nevada Test Site	Repeater Net-3 (Fire/Medical)
168.3750	BLM	Southern Nevada	Repeater & simplex (Dispatch)
168.4750	DOE	Nevada Test Site	Repeater (Tech. Ops.)
168.5250	BLM	Las Vegas	Associated with 419.6250)
168.5500	BLM	Southern Nevada	No details
168.6250	USFS	Southern Nevada	Air Net
169.0375	BLM	Las Vegas	Dispatch
169.3000	FAA	Las Vegas area	Steady carrier
169.4000	BLM	Las Vegas	Dispatch
169.7500	BLM	Southern Nevada	Common fire channel (repeater)
169.8750	USFS	Toiyabe N.F.	Primary (repeater & simplex)
170.4750	USFS	Toiyabe N.F.	Input to 169.8750
170.7500	DOE	Nevada Test Site	Technical tests
172.1250	FAA	Las Vegas	Input to 172.9250
172.9250	FAA	Las Vegas	Repeater & simplex
173.1500	AF	Nellis AFB	CO-Line, non "red flag"
173.5125	AF	Nellis AFB	Repeater (Net-5)
173.5375	AF	Nellis AFB	Repeater - CO-Line, Red Flag
173.5625	AF	Nellis AFB	Hospital paging
173.5875	AF	Nellis AFB	Base Fire Dept.
173.6125	AF	Nellis AFB	No details
173.6875	DOE	Nevada Test Site	Repeater (Area-12)
173.7125	DOE	Nevada Test Site	Vehicle movement (repeater)
407.0500	DOE	Nevada Test Site	Construction crews repeater
407.1750	AF	Nellis AFB	Input to 173.1500
407.3500	DOE	Nevada Test Site	Construction and Maint. repeater
407.4500	AF	Nellis AFB	Input to 173.5375
408.0000	AF	Nellis AFB	Flightline ops "raymond-22"
408.0250	DOE	Nevada Test Site	Short tone bursts
408.0500	DOE	Nevada Test Site	Little activity (repeater)
408.5500	DOE	Nevada Test Site	Low power (repeater)
408.5750	BOR	Boulder City	Data and radio telephone
408.9500	DOE	Nevada Test Site	Engineering (repeater)
409.0250	AF	Nellis AFB	Flightline ops
409.3000	DOE	Nevada Test Site	Little activity
410.1000	NWS	Las Vegas	Link to 162.5500
410.3500	DOE	Nevada Test Site	Net-12 (repeater)
410.8000	DOE	Nevada Test Site	Paging
411.3250	USFS	Toiyabe N.F.	Link to 169.8750
411.7000	LMNRA	Southern Nevada	Link to 156.8000
411.8500	AF	Nellis AFB	Flightline ops
412.9750	AF	Nellis AFB	No details
413.0250	AF	Nellis AFB	Flightline ops
413.1250	AF	Nellis AFB	Flightline ops
413.1500	AF	Nellis AFB	Steady carrier
413.1750	AF	Nellis AFB	Flightline ops
413.2750	AF	Nellis AFB	Flightline ops & ground emerg.
413.3250	AF	Nellis AFB	Flightline ops
413.4250	AF	Nellis AFB	Fixed station input to 173.1500
415.6250	AF	Nellis AFB	Flightline ops & ground emerg.
416.8500	DOE	Nevada Test Site	Net-12 (Security)
416.9750	DOE	Nevada Test Site	Repeater
419.6250	BLM	Southern Nevada	Link - repeats nearly all traffic

AF = Air Force
BOR = Bur. of Reclamation (Interior)
DOE = Dept. of Energy
EPA = Environ. Protect. Agcy.
FAA = Federal Aviation Admin.
LMNRA = Lake Mead Nat'l Rec. Area (Interior)
NWS = Nat'l Weather Service
USFS = U.S. Forest Service

BOB RANKIN (KS-001) says the Army Engineers seem to be expanding their system in the Lawrence, Kansas, listen area. He reports a Missouri River repeater on 163.4375 has dual inputs of 162.3500 and 164.2000. He also has several other items for us.

The General Services Administration (GSA) personnel guarding the President Eisenhower Center in Abilene, Kansas, use the very common GSA frequency of 415.200 as a repeater output.

The National Science Foundation has several repeater sites along the front range and plains area of Colorado to support their on-going project studying the characteristics of severe thunderstorms. As this is one of the two areas of the country with the most storm activity (the other being around Tampa, Florida), there is plenty to listen to nearly every afternoon and evening during the storm season. Chase vehicles and National Weather Service radar sites coordinate activities with an output frequency of 164.3250.

Thanks to both Bobs for the material for us this month. And, here's a reminder for everyone -- even you!

CALL FOR CONTRIBUTIONS OF SPECIFIC AGENCIES

According to the readers' survey, members reported they wanted editors to ask in advance for specific information for widest possible coverage of areas of general interest. Great! Here are the deadlines I need the material by and the specific frequencies requested.

A couple of things, please.
(1) Please do not copy a list of frequencies from another publication. We must continue to respect copyrights.
(2) If another person was kind enough to give you the information you send in, be courteous and credit your source.
(3) Please distinguish between what you've personally confirmed and what you've "heard about" from others.
(4) Please be complete regarding frequency, repeater input (if any), location, agency using frequency, frequency use (dispatch, secondary, interagency, etc), channel number, special codes, unit numbers and callsigns, transmitter sites, links (if any) and any other special items of interest. If you want a complete and accurate list, that's what you have to send in!
(5) Please do not include contributions for these special projects in with other routine correspondence for the column.
(6) Don't forget your name, member number, and a self-addressed post card so I can acknowledge receipt of your material.

This does not mean that you should stop other column contributions. This is merely a timetable for special features. Please continue regular contributions as in the past!

Deadline	Subject area
Mar 15	U.S. Forest Service (Agriculture Dept.) Includes 155 Nat'l Forests, 19 Nat'l Grasslands and 18 land utilization projects
Apr 15	Veterans' Administration Operates 172 medical centers, 16 domiciliaries, 225 clinics and 99 nursing homes.
May 15	Fed. Aviation Admin. (FAA)--but <u>not</u> VHF aero freqs. Please do not include frequencies between 108 and 136 mHz.

That's it for another month. Hope you have a great one! And, don't forget to support what you asked to see in print! Send those frequencies in now, before you forget! I'll be waiting...

73- Dewey

INTERNATIONAL

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to:

Rickey Stein, 456 Barrymore Place, North Brunswick, NJ 08902

Let's continue with more of Mike Britt's fine report from Guadalajara.

AMBULANCES

There are basically five classes of ambulances in Guadalajara, and throughout Mexico as well.

1. Cruz Roja Mexicana- the Mexican Red Cross. As in many parts of the world, the Red Cross in Mexico provides medical services for those who otherwide have no means of paying for these services. In many rural areas, it is the only medical service available for hundreds of miles.

2. Cruz Verde de Municipal Guadalajara- the Green Cross is the emergency medical service for the city. (The fire department does not provide medical emergency services , as is common in the U.S.). This is the 'first response' ambulance to medical aid calls such as injury traffic accidents. They are based at four hospitals, one in each sector of the city.

3. Instituto de Seguridad Servicios Sociales de los Trabajadores del Estado- this is the social security agency for employees of the State of Jalisco. State employees have their medical needs provided for, including ambulance transport. The units are recognizable by their 'ISSSTE' emblem.

4. Instituto Mexicano de Seguro Social- The Social Security agency for federal government employees. Like the ISSSTE, it handles all medical services for Mexican Government workers, although on a national level. The 'IMSS' emblem marks the ambulances of this agency.

5. Private ambulance companies. There are two or three of these in Guadalajara. They are generally used for non-emergency transport, although they are equipped for emergency transport also. These are used almost exclusively by the wealthy upper class, who can afford such private attention. While they no doubt communicate by two-way radio, I was not able to discover any of the frequencies used by the privateservices.

One other note about the ambulances seen in Mexico- nearly all are of the 'delivery sedan' type of vehicle (mostly Chevrolet, vintage late 60's). I saw perhaps two passenger-van style rigs and only one modular unit (step-van style). Most ambulances are nothing more than a mode of transporting the injured, with only a stretcher and the basic 'first-aid' equipment. I saw nothing in Mexico similar to the paramedic services available in the U.S.

••••••••

More Mexican frequencies from Rafael Mirano:

State of Sonora

SAN LUIS R.C.

149.775	Police Department
152.840	State Judicial Police
154.700	Federal Highway Police
157.700	C.F.E. (Light and Power) repeater out

157.600 Social Security Hospital
158.100 C.F.E. repeater input
165.325 Mexican Customs Office repeater out
166.275 Mexican Customs Office repeater input
172.000 Federal Judicial Police

PUERTO PEÑASCO (Rocky Point)

152.750 Police Department
152.840 State Judicial Police

SONOYTA

165.325 Mexican Customs repeater out
166.275 Mexican Customs repeater input

HERÓICA CABORCA

146.000 Ham operators-input
146.600 Ham operators-output
147.970 Mexican Red Cross
152.840 State Judicial Police
154.700 Federal Highway Police
154.730 Federal Highway Police
155.850 Business Communications-mostly agricultural RP/161.100 input
158.150 " " " " repeater out
159.850 " " " " RP/162.950 input
159.950 " " " " repeater out
160.025 " " " " RP/161.050 input
161.175 " " " " repeater out
162.150 " " " "
163.050 " " " " repeater out
164.525 " " " " RP/165.450 input
165.475 " " " " Linked to 171.600 input
170.050 " " " " RP/171.600 input
167.100 Sonora---Baja California R.R.
167.625 Sonora---Baja California R.R. repeater out/input 167.100
168.550 Caborca Police repeater out/input 171.900
450.200 C.F.E. Telemetry
455.200 C.F.E. Telemetry

NOGALES

******** We need help from members in Southern Arizona!!********

??????? Police Rafael writes that he was able to determine that the police operate in the 168MHz region by using a tunable radio. Traffic was too light for the scanner to stop. Help!

165.325 Mexican Customs repeater out
166.275 Mexican Customs repeater input

BENJAMIN HILL (Railroad Switch town)

167.100 Sonora---Baja California R.R.
167.150 Ferrocarril del Pacífico
167.625 Ferrocarril del Pacífico repeater output

That's it for this month. See you in 30....

MARKETPLACE

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to:

RCMA MARKETPLACE, c/o Gary M. Darcy, P.O. Box 1329, Palmdale, CA 93550

Please be sure to include your membership number.

All Marketplace ads will be accepted ONLY on special forms available from this column's editor. Send a self-addressed STAMPED envelope (business size) to the address above to receive a supply of forms. Foreign members do not need to include postage on envelopes they send.

ATTENTION:

Members wishing to contact me by way of electronic mail may do so via the following services:

Service:	ID:	BBS:	Phone Number:
COMPUSERVE:	76566,1542	LAWBOARD (PALMDALE, CA)	805-273-8476
DELPHI:	GMDARCY	TBBS (LANCASTER, CA)	805-948-8047
PEOPLE LINK:	INF568	COLOR CONNECTION 80 (FL)	305-392-5591*
MCI MAIL:	286-1087		
TELEX:	6502861087	(* = NEW PHONE NUMBER)	

FOR SALE:

Uniden/Bearcat 210XL. Must sell; like new; only 6 months old; factory carton. $185.00/negotiable. Contact: CHARLES CRUTCHER (TN-030), P.O. Box 575, Franklin, TN 37064 or phone 615-791-0203. (12-19-85)

FOR SALE:

Regency Touch ACT-T-16K. 30-50 Mhz/146-174 Mhz/440-512 Mhz; 16 channel w/priority & search; AC-DC; good condition; will ship UPS. $100.00 or best offer. Contact: MIKE COSALVO (CA-RI-011), 10060 Hillsborough Ln., Riverside, CA 92503 or phone 714-785-0266. (12-27-85)

FOR SALE OR TRADE:

Astrocom SR-212A. Servellence; all modes; covers 30-1000 Mhz w/spectrum display; good condition; ready to use. $900.00 or trade. Contact: MICHAEL P. MURPHY (CA-SD-033), 11621 Valle Vista Rd., Lakeside, CA 92040 or phone 616-561-2726. (12-19-85)

WANTED:

Any type Radio Shack scanner if it works and is in good condition. $50.00. Contact: VERONICA SCOTTI (CA-OR-284), P.O. Box 8451, Anahiem, CA 92802 or phone 714-537-3516. NO COLLECT CALLS PLEASE. (12-12-85)

WANTED:

Bearcat 250. Scanner must be in good working condition. $100.00. Contact: VERONICA SCOTTI (CA-OR-284), P.O. Box 8451, Anahiem, CA 92802 or phone 714-537-3516. NO COLLECT CALLS PLEASE. (12-12-85)

WANTED:

Regency MX-5000. Must be in good working condition. $80.00. Contact: VERONICA SCOTTI (CA-OR-284), P.O. Box 8451, Anahiem, CA 92806 or phone 714-537-3516. NO COLLECT CALLS PLEASE. (12-12-85)

** FREE **

FCC microfiche. Send SASE for your state microfiche sheet. I have two available for each state - one 1981 and one 1985. NO SASE, NO SHEET. RCMA members only; one sheet per person. Contact: CRAIG THOMPSON (CA-VE-011), 978 E. Bower Way, Thousand Oaks, CA 91360-0012. (12-17-85)

1200	Rescue Training Unit
1271-1279	Fire School

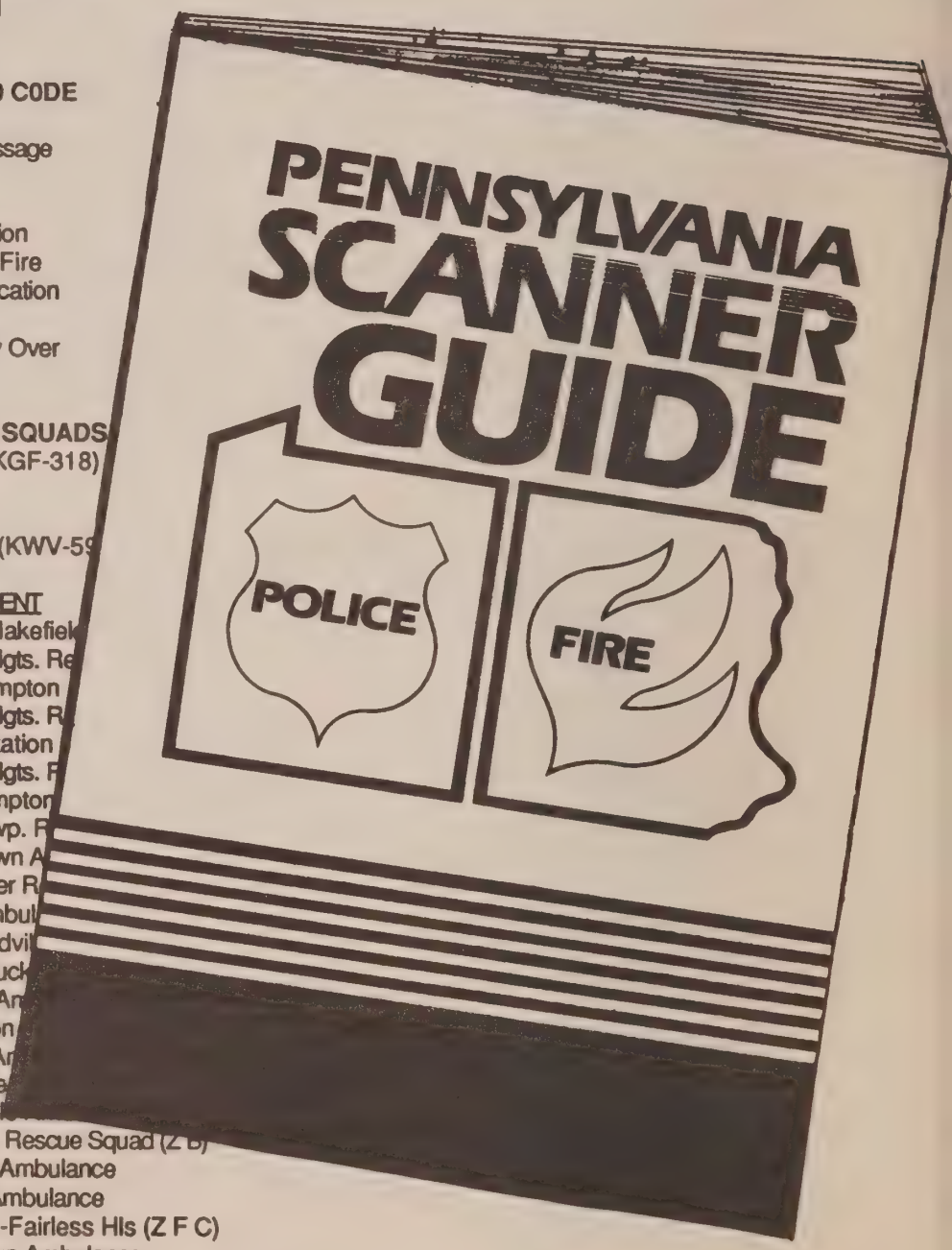
BUCKS COUNTY FIRE 10 C0DE

10-4	OK
10-6	Repeat Message
10-7	Off Air
10-8	On Air
10-9	Your Location
10-11	Arrived At Fire
10-14	Leaving Location
10-20	Clear Air
10-21	Emergency Over

BUCKS CONTY
AMBULANCE & RESCUE SQUADS

Dispatch-	046.10 (KGF-318)
F-2(Hospital)	045.96
F-3	045.92
MED 4,5,6,7	463.175 (KWV-5

STATION	DEPARTMENT
Station 100	Yardley Makefiel
Station 113	Trevose Hgts. Re Southampton
Station 114	Trevose Hgts. R Main Station
Station 115	Trevose Hgts. F Northampton
Station 116	Milford Twp. F
Station 117	Quakertown A
Station 122	Warminster R
Station 123	Dublin Ambul
Station 124	Plumsteadvi
Station 125	Central Buck
Station 126	Perkasie An
Station 129	Warrington
Station 134	Chalfont An
Station 139	Morrisville
Station 142	Riegelsvill
Station 143	Bucks Co. Rescue Squad (Z B)
Station 145	Newtown Ambulance
Station 148	Erwinna Ambulance
Station 154	Levittown-Fairless Hls (Z F C)
Station 167	Doylestown Ambulance
Station 168	Penndel-Middletown Amb. (Z)
Station 177	Point Pleasant Amb. (F)
Station 185	Bensalem Rescue Squad (Z B)



NEW !!
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AND MUCH MORE!! EACH PENNSYLVANIA SCANNER GUIDE CONTAINS OVER 115 PAGES OF VALUABLE INFORMATION ABOUT THE EMERGENCY RADIO SERVICES. THERE ARE ALSO PHOTOGRAPHS OF THE VARIOUS COMMUNICAITONS SYSTEMS AND EMERGENCY SERVICES FROM ALL OVER THEW STATE.

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EASTERN PENNSYLVANIA EDITION: THIS EDITION COVERS ALL COUNTIES EAST OF A LINE FROM FULTON, HUNTINGDON, CLINTON, CENTRE , AND POTTER COUNTIES (THE WHOLE EASTERN HALF OF THE STATE) INCLUDING PHILADELPHIA.

WESTERN PENNSYLVANIA EDITION: THIS EDITION COVERS ALL COUNTIES WEST OF A LINE FROM FULTON, HUNTINGDON, CLINTON, CENTER, AND POTTER COUNTIES (THE WHOLE WESTERN HALF OF THE STATE) INCLUDING EXTENSIVE COVERAGE OF THE PITTSBURGH AREA.

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P.O. Box 5246 Lancaster, PA. 17601

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MAKE CHECKS PAYABLE TO LEE / FRANCIS BY MAIL... ALLOW 3 WEEKS DELIVERY

NEWS MEDIA COMMUNICATIONS

This column is for reporting frequency and radio systems information of news media. Send related reports and questions on newspaper, radio, television, magazine, film production companies, etc.» to:

Allen G. Henney, MD-069, 6912 Prince Georges Ave, Takoma Park, MD 20912

WELCOME TO THE WORLD OF NEWSMEDIA MONITORING

THIS IS THE FIRST COLUMN IN THE RCMA NEWSLETTER DEDICATED SOLELY TO THE MONITORING OF THE NEWSMEDIA. I AM ALAN HENNEY, A LONG TIME MEDIA BUFF. LIVING 5 BLOCKS FROM THE CITY OF WASHINGTON, D.C. I HAVE ALWAYS BEEN INTERESTED IN JUST HOW & FROM WHOM THE MEDIA OBTAINED ITS INFORMATION. IN THIS COLUNM WE HOPE TO 'PROBE' INTO THE MYSTERIOUS WORLD OF THE MEDIA.

SO, HOW MANY OF YOU HAVE AN ACTIVE NEWSMEDIA FREQUENCY PRESENTLY IN ONE OF YOUR RADIOS? WELL IF YOU DON'T, TRY GIVING THE MEDIA BANDS A CHANCE. IF YOU LIVE IN OR NEAR A BIG CITY TRY SEARCHING THE 161, 450 & 455 BANDS RIGHT BEFORE THE 5 OR 6 O'CLOCK NEWS (THE INCLUDED FREQUENCY LIST SHOULD BE OF SOME HELP). IF YOU LIVE IN A SMALLER AREA TRY THE 161 BAND FIRST. DON'T GIVE UP-THE MEDIA GROWS ON YOU SLOWLY.

WHEN I FIRST BECAME INTERESTED IN THE MEDIA I DECIDED TO CALL UP SOME LOCAL TELEVISION STATIONS TO ASK FOR FREQUENCIES. WELL, THAT ALONE WOULD BE ENOUGH TO DISCOURAGE ANYONE. I TALKED TO SEVERAL 'TV DESKS', WHO IMMEDIATELY ASK "WHO WANTS TO KNOW?" SO AFTER I TOLD THEM MY LIFE STORY (HOW I WAS INTERESTED IN MONITORING SCANNERS etc BEING A MEMBER OF RCMA, REACT ...) I WAS LUCKY IF THEY WOULD SAY 'GOOD BYE' BEFORE THEY HUNG UP ON ME. WELL, ANYWAY THEY TEND TO BE UNDER A LOT OF PRESSURE WORKING IN SUCH A FAST MOVING FIELD. IN A RECENT STUDY IT WAS FOUND THAT ON THE AVERAGE A NEWS DIRECTOR LASTS FOR 3 YEARS. THE MEDIA IS THE ONLY FIELD IN WHICH A MULTITUDE OF PREVIOUS JOBS LOOK IMPRESSIVE ON A JOB RESUME. HOWEVER IT IS IMPORTANT TO NOTE THAT NO ONE GETS 'FIRED' IN THE NEWS BUSINESS, THEY GET 'TERMINATED'.

I HAVE BEEN MONITORING SINCE I GOT MY FIRST RADIO SHACK MULTI-BAND RECEIVER IN 1976. PRESENTLY I AM GOING TO COLLEGE & MAJORING IN COMPUTER SCIENCE. I HAVE BEEN WRITING A WASHINGTON AREA SCANNER NEWSLETTER ALONG WITH ARNOLD MILLER. LOCALLY I HAVE BEEN LUCKY ENOUGH TO MAKE A FEW FRIENDS IN THE MEDIA WHICH I OFTEN CORRESPOND WITH. I WOULD LIKE TO COMPARE NOTES WITH YOU & WOULD ENJOY YOUR INPUT. I ALWAYS MAKE A SPECIAL EFFORT TO ANSWER ALL CORRESPONDENCE.

THE INCLUDED FREQUENCY LIST SHOULD GIVE A GOOD STARTING PLACE. TRANSMITTER POWER IS LIMITED TO 100 WATTS MAXIMUM FOR EARTH STATIONS & 25 WATTS FOR AIRCRAFT. IT SHOULD BE NOTED THAT THE MEDIA MAKES USE OF OTHER FREQUENCY BANDS SUCH AS RADIO COMMON CARRIER (PAGING & MOBILE TELEPHONE), BUSINESS & GENERAL MOBILE RADIO SERVICES FOR OFTEN 'COVERT' OPERATIONS. OCCASIONALLY THEY WILL ACCIDENTLY 'BLOW' THEIR COVER DURING A WORKING STORY ON A MEDIA FREQUENCY.

[41 FR 29686, July 19, 1976, as amended at 42 FR 14728, Mar. 16, 1977; 47 FR 28388, June 30, 1982]

§ 74.402 Frequency assignment.

(a) The following frequencies may be assigned for use by remote pickup broadcast stations:

(1) *Group A* (kHz): 1606,[1] 1622, 1646.
(2) *Group D* (MHz): 25.87,[2] 26.15, 26.25, 26.35.
Group E (MHz): 25.91,[2] 26.17, 26.27, 26.37.
Group F (MHz): 25.95;[2] 26.19; 26.29; 26.39.
Group G (MHz): 25.99;[2] 26.21; 26.31; 26.41.
Group H (MHz): 26.03;[2] 26.23; 26.33; 26.43.
(3) *Group I* (MHz): 26.07;[2] 26.11; 26.45.
Group J (MHz): 26.09;[2] 26.13; 26.47.

[1]Subject to the condition that no harmful interference is caused to the reception of standard broadcasting stations.
[2]Subject to the condition that no harmful interference is caused to stations in the broadcasting service.

(4) *Group K*[8]$_1$ (MHz): 152.87[3], 152.93[3], 152.99[3], 153.05[3], 153.11[3], 153.17[3], 153.23[3], 153.29[3], 153.35[3].

Group K[8]$_2$ (MHz): 161.64[5]; 161.67[5]; 161.70[5]; 161.73[5]; 161.76[5].

(5) *Group L* (MHz): 166.25[4].

Group M (MHz): 170.15[4].

(6) *Group N*$_1$ (MHz): 450.050; 450.150; 450.250; 450.350; 450.450; 450.550; 455.050; 455.150; 455.250; 455.350; 455.450; 455.550.

Group N$_2$ (MHz): 450.0875; 450.1125; 450.1875; 450.2125; 450.2875; 450.3125; 450.3875; 450.4125; 450.4875; 450.5125; 450.5875; 450.6125; 455.0875; 455.1125; 455.1875; 455.2125; 455.2875; 455.3125; 455.3875; 455.4125; 455.4875; 455.5125; 455.5875; 455.6125.

(7) *Group P* (MHz): 450.01[6], 450.02[6]; 450.98[6]; 450.99[6]; 455.01[6]; 455.02[6]; 455.98[6]; 455.99[6].

(8) *Group R* (MHz): 450.650,[7] 450.700,[7] 450.750,[7] 450.800,[7] 450.850,[7] 455.650,[7] 455.700,[7] 455.750,[7] 455.800,[7] 455.850.[7]

Group S (MHz): 450.925,[7] 455.925.[7]

(b) The following frequencies are allocated for assignment to remote pickup broadcast stations in Puerto Rico and the Virgin Islands only:

160.89 MHz, 160.95 MHz, 160.01 MHz, 161.07 MHz, 161.13 MHz, 161.19 MHz, 161.25 MHz, 161.31 MHz, 161.37 MHz.

NOTE: These frequencies are shared with the Land Transportation Radio Service.

[3]Subject to the condition that no harmful interference is caused to stations operating in accordance with the Table of Frequency Allocations set forth in Part 2 of the Commission's Rules and Regulations. Applications for licenses to use frequencies in this group must include statements showing what procedures will be taken to insure that interference will not be caused to stations in the industrial radio services.

[4]Operation on the frequencies 166.25 MHz and 170.15 MHz is not authorized (i) within the area bounded on the west by the Mississippi River, on the north by the parallel of latitude 37°30' N., and on the east and south by the arc of the circle with center at Springfield, Ill., and radius equal to the airline distance between Springfield, Ill., and Montgomery, Alabama, subtended between the foregoing west and north boundaries; (ii) within 150 miles of New York City; and (iii) in Alaska or outside the continental United States; and is subject to the condition that no harmful interference is caused to government radio stations in the band 162-174 MHz.

(c) For licensing purposes, a single system will consist of transmitters authorized to use the following combinations of frequency groups in a single area:

(1) Group A.
(2) One group from Groups D, E, F, G, or H; and/or either I or J.
(3) Groups K_1 and K_2, and/or either L or M.
(4) Groups N_1 and R.
(5) Group N_2.
(6) Group P.
(7) Group S.

(d) License applicants shall request assignment of only those frequencies, both in number and channel bandwidth, necessary for satisfactory operation. A licensee may operate a remote pickup broadcast system only if the system is equipped to operate on all assigned frequencies. It is not necessary that each transmitter within a system be equipped to operate on all authorized system frequencies.

(e) Remote pickup broadcast stations or systems will not be granted exclusive frequency assignments. The same frequency or frequencies may be assigned to other licensees in the same area. Applicants for licenses should select the frequencies closest to the lower band edges within a group that will meet operational requirements to promote the orderly and efficient use of the allocated frequencies.

[5]These frequencies may not be used by remote pickup stations in Puerto Rico or the Virgin Islands. In other areas, certain existing stations in the Public Safety and Land Transportation Radio Services have been permitted to continue operation on these frequencies on condition that no harmful interference is caused to remote pickup broadcast stations.

[6]The use of these frequencies is limited to operational communications, including tones for signalling and for remote control and automatic transmission system control and telemetry.

[7]The use of these frequencies is limited to the transmission of program material and cues and orders immediately necessary thereto.

[8]Frequencies in Groups K_1 and K_2 will not be licensed to network entities. Frequencies in Group K_1 will not be authorized to new stations for use on board aircraft.

UNTIL NEXT MONTH GOOD NIGHT, GOOD NEWS & GOOD SCANNERING!

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 X 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to:

Hugh Stegman, 11622 Exposition Blvd., #2, Los Angeles, CA 90064

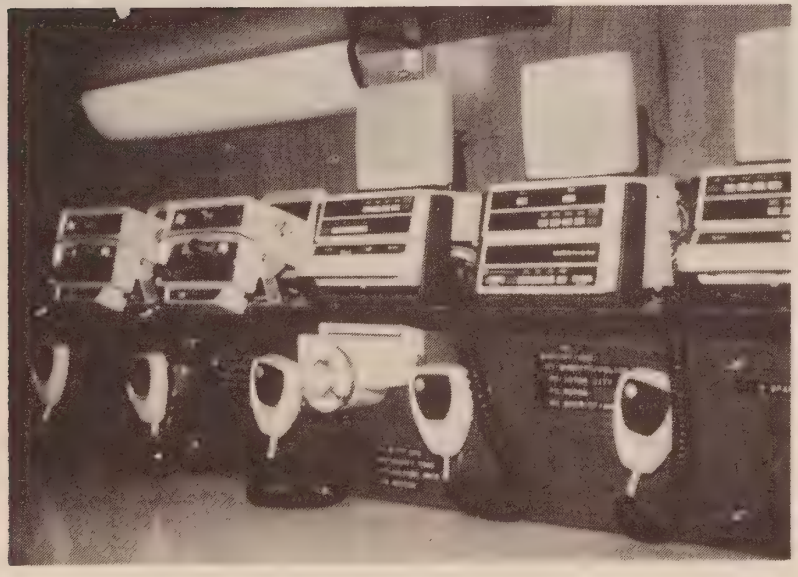
MIDLAND COUNTY SHERIFF'S DEPT. EMERGENCY C.P. UNIT

Awwright! Pardon my lapse into Val Speak, but this month we have some TOTALLY AWESOME photos of the Emergency Command Unit used by the sheriff's department in Midland County, Michigan. These come from Susan M. Moll (MI-138).

This truck is used each August at the county fair, and the rest of the time it is ready for any conceivable emergency. Note the 360 degree PA speakers on top (behind the siren), and the floodlights. The radio antennas won't reproduce, but I counted twelve of 'em.

The next photo shows one of three radio banks. Motorola city! The control head at right is for a spare radio, then (R. to L.):

#1	F1:	Sheriff/ City PD common dispatch
	F2:	Intercity
	F3;	Mich. Emerg. Police System
	F4;	Sheriff/ Ambulance
#3	F1:	City public works
	F2:	County roads
	F3:	Coleman area (a catch-all channel)
	F4:	Hospital Emergency Room Net (HERN)
		(The HERN dialer is below the control head)
#2	F1:	County FD
	F2:	City FD
	F3:	Mutual aid
	F4:	Car/ car
#4		State Police
#5		Out of view to left; use not given



The last photo shows a radio bay in the rear. At top is radio #7, a CB, and #8, a Drake UV-3 used on the 2 meter ham band. The UV-3 (no longer made) is unusual, in that it also operates on the ham 220 and 440 MHz bands. The use of the small radio beneath this was not given. At bottom is a Bogen P.A. amplifier.

The C.P. truck also carries some rescue equipment, and another radio bay for business frequencies. These include some Dow plants, and Consumers Power (including the defunct nuclear plant!). One can also type and process reports. As Susan notes, this is a real home away from home.

Well, see you next month, when we'll see how the pros put up a big radio tower. Yes, Chuck, I found your pictures. And thanks again to Susan. 73 de NV6H.

PUBLIC SAFETY

This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for poilice, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

Associated Public-Safety Communications Officers, Inc.

OFFICIAL TEN SIGNAL LIST

APCO states the numbering, sequence, words or word phrasing of the below listed signals may no be altered, nor may the reserved signals be otherwise implemented except by APCO. Any user may employ signal numbers upward, beginning with 10-40, as needed for local dispatching. RCMA publishes this listing in support of APCO and their uniform dispatch code efforts. We will print other dispatch codes, different from the OFFICIAL APCO listing, only to assist our membership in their continued monitoring hobby. It is hoped you find this listing useful.

10-1	Signal weak	10-19	(In) contact
10-2	Signal good	10-20	Location
10-3	Stop transmitting	10-21	Call ( ) by phone
10-4	Affirmative (OK)	10-22	Disregard
10-5	Relay (to)	10-23	Arrived at scene
10-6	Busy	10-24	Assignment completed
10-7	Out of service	10-25	Report to (Meet)
10-8	In service	10-26	Estimated time of arrival
10-9	Say again	10-27	License/Permit Information
10-10	Negative	10-28	Ownership Information
10-11	( ) on duty	10-29	Records check
10-12	Stand by (stop)	10-30	Danger/Caution
10-13	Existing conditions	10-31	Pick up
10-14	Message/Information	10-32	( ) units needed (Specify)
10-15	Message delivered	10-33	Help me quick
10-16	Reply to message	10-34	Time
10-17	Enroute	10-35 through 10-39 are reserved for future assignment by APCO. User option 10-40 upward.	
10-18	Urgent		

A.C.M.A. SOUTH CENTRAL

POST OFFICE BOX 5053
AUSTIN, TEXAS 78763-5053

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas to the above address.

Greetings and welcome to the March issue of the RCMA Newsletter. It seems like I just mailed off the Feb. Column to Ken for his input and polishing. I would like to mention one thing before starting this month's news, I can now be contacted via Compuserve. My user number is 73147,3261. Delphi is next on my list. I usually get on this board on Saturday nights/Sunday morning, so if you have something you want to leave with me I usually get it on the weekends.

In response to our "paging" call in January's column, I got an excellent San Antonio update from Ronald (TX-011). It's been a while since we've had an extensive listing for the Alamo City, so our hats go off to Ron for this fine listing. Thanks, Ron!!

San Antonio Area Frequency Listing
by - Ron (TX-011)

Bexar County:

155.790	KKJ 999	PP	Ch 1 Warrant officers & area cities
155.985	KXV 667	PP	Ch 2 Main Dispatch

154.950	KXV 666	PP	Ch 3 intercity
155.370	KXV 665	PP	Ch 4 intercity
155.295	KGL 482	PP	B.C. Sheriff Reserves
156.150 R		PL	B.C. Constables - Pct 2 (154.650 in)
154.250	KKW 980	PF	Bexar Co Fire Alarm (Central dispatch for most all county VFD's)
153.770	KA 35584	PF	use?
45.560	various	PL	B.C. Civil Defense
155.220		PS	SA EMS (for unincorporated areas)
155.715	KRE 422	PL	B.C. Road Crews

Alamo Heights:

155.430	KVF 678	PP	PD Dispatch
154.950	KVF 678	PP	PD Ch 3 Intercity
155.370	KVF 678	PP	PD intercity
154.370	KCJ 962	PF	Fire & EMS Dispatch
155.100	KCU 269	PL	Local Gov't

Note: Alamo Heights is also equipped with S.A.PD F- 1, 460.025, and F-4, 460.175, for information.

Balcones Heights:

155.910	KUX 293	PP	PD Ch 1 Dispatch
154.995	KTE 615	PL	PD Ch 2
154.950	KUX 293	PP	PD Ch 3 Intercity
155.370	KUX 293	PP	PD Ch 4 Intercity
154.205	KNFW 980	PF	FD Ch 1 Dispatch
154.995	KTE 615	PL	FD Dispatch simulcast
154.995	KTE 615	PL	Local Gov't (used by PD & FD)

Note: Balcones Heights is serviced by San Antonio E.M.S., dispatched on 155.220.

Bracken: (unconfirmed)

154.445 R	KZT 493	PF	Braken VFD dispatch? (153.890 in)

Castle Hills:

155.745 R	KRJ 757	PP	PD dispatch
154.950		PP	PD Ch 3 Intercity
155.370	KRJ 757	PP	PD Ch 4 Intercity
154.220	WRZ 692	PF	FD dispatch
155.745	KNHJ 746	PL	?LG use (used by PD & LG?)

China Grove:

Police service provided by Bexar Co. S.O., dispatched on 155.985. China Grove Volunteer FD is dispatched by Bexar County Fire Alarm on 154.250.

Cibolo:

155.490		PP	PD Ch 1 Universal City Dispatch
155.535		PP	PD Ch 2
156.015		PF	FD/EMS Dispatch
158.805	WZU 293	PL	Cibolo Ck Mun. Auth.

Note: PD is dispatched by Universal City PD. FD is dispatched by Schertz. EMS service also provided by Schertz.

Converse:

154.890 R	KNBN 642	PP	PD Ch 1 Live Oak dispatch (153.845 in)
155.025		pp	PD Ch 2 Converse
154.950		PP	PD Ch 3 intercity
154.250		PF	Converse VFD
154.175		PS	Live Oak E.M.S.
155.025		PL	Water, Street dept

Note: PD is dispatched by Live Oak and FD is dispatched by Bexar County Fire Alarm. EMS dispatched by Live Oak.

Elmendorf:

155.790		PP	PD Ch 1 BCSO Dispatch
154.950	KS 6703	PP	PD Ch 3

Note: PD dispatched by Bexar Co S.O. Fire service provided by Harmony VFD. EMS serviced by private amb. svc - name and frequency unknown.

Grey Forest:

155.790		PP	PD Ch 1 BCSO dispatch
154.950	KS 6704	PP	PD Ch 3 intercity
154.250		PF	FD Ch 1 Dispatch
155.220		PS	EMS
154.085	KVT 866	PL	(unknown use)

Note: PD is dispatched by B.C.SO. Fire protecton provided by VFD dispatched on Bexar Co Fire Alarm.

Helotes:

155.790		PP	PD Ch 1 BCSO dispatch
154.950		PP	PD Ch 3 intercity
154.250	KUX 415	PF	FD Ch 1
453.150	Kux 415	PF	FD Ch 2 (V.FD)
154.190		PF	FD -use?
453.375	KNFR 792	PL	Local Gov't (no known use)

Note: PD is dispatched by B.C.SO. EMS Service provided by San Antonio EMS on 155.220.

Hill Country Village:

155.790	PP	PD Ch 1 BCSO dispatch
154.950	PP	PD Ch 3 intercity

Note: PD is dispatched by B.C.SO. Fire service provided by Hollywood Park VFD, dispatched on B.C. Fire Alarm 154.250. EMS provided by San Antonio EMS on 155.220.

Hollywood Park:

155.790		PP	PD Ch 1 BCSO dispatch
155.760	KJK 268	PL	used as Ch 2 for PD and FD
154.830	KB33462	PP	
154.950		PP	PD Ch 3 intercity
154.250	KRX 406	PF	Hollywood V.F.D
155.760	KJK 268	PL	used as Ch 2 for PD and FD

Note: EMS Service provided by San Antonio EMS on 155.220.

Kirby:

154.860	KXX 448	PP	PD Ch 1 Dispatch
154.950	KXX 448	PP	intercity
155.370	KXX 448	PP	intercity (base)
155.790		PP	BCSO Ch- 1
154.980	KZE 589	PL	EMS/FD/Local Gov't shared

Leon Valley:

154.725 R	KYU 874	PP	PD Ch 1 Dispatch (155.580 input)
153.995		PP	PD Ch 2
154.950	KYU 879	PP	PD Ch 3 intercity
155.370	KYU 874	PP	PD Ch 4 intercity
154.145	KBQ 204	PF	FD Ch 1 Dispatch
153.875		PL	

Note: EMS service provided by Schertz EMS.

Live Oak:

154.890 R	KNBQ 202	PP	PD Ch 1 dispatch? (153.845 in?)
154.950		PP	PD Ch 3 Intercity
155.370		PP	PD Ch 4 Intercity
154.175	KNBJ 660	PF	FD dispatch?
154.160	KA 81524	PF	FD - use?
153.995	KWO 302	PL	

Note: Also licensed for Universal City PD system.

Olmos Park:

154.235	KNHK 659	PP	PD & FD Ch 1 Dispatch
154.950	KNGJ 543	PP	PD Ch 3 intercity
154.235	KNHK 659	PF	FD& PD Ch 1 Dispatch
155.100		PL	Local Gov't

Note: EMS Service provided by Alamo Heights EMS.

San Antonio:

460.025	KUY 587	PP	SA PD F- 1 S Dist 4,5
460.075	KUY 586	PP	SA PD F- 2 W Dist 7,8,9
460.125	KUY 588	PP	SA PD F- 3 Cent 1,6
460.175	KUY 590	PP	SA PD F- 4 N & E Dist 2,3,11
460.475	KUY 587	PP	SA PD F- 5 Info
460.300	KUY 586	PP	SA PD F- 6 Traffic
460.250	KUY 589	PP	SA PD F- 8 Tactical
155.370	KKD 399	PP	intercity
155.250	KKD 339	PP	Park Rangers
155.565 R	KVF 722	PP	Airport Security (153.740 in)
154.430	KYJ 234	PF	SA FD F- 1 Dispatch
154.355	KYJ 234	PF	SA FD F- 2 Administrative
155.220	WZC 699	PS	E.M.S. F- 1 Dispatch (operated by SAFD)
155.340	WZX 363	PS	E.M.S. F- 2 Amb to Hosp (operated by SAFD)
153.800	KJW 742	PL	[unknown use/agency]
153.905	KNDS 832	PL	[unknown use/agency]
154.025 R	KGJ 784	PL	S.A. Water Board Ch 1
154.115 R	KTP 976	PL	S.A. Water Board Ch 2
155.835	KJW 742	PL	[unknown use/agency]
158.760	KKV 487	PL	S.A./Public Works Dept
158.820	KKV 487	PL	S.A./Public Works Dept
158.865	KWO 392	PL	Civil Defense
158.895	WFK 774	PL	[rptr input to Public Works or Water Bd channels]
158.925	KKL 714	PL	Animal Control Facility/Brackenridge Park
158.955	WFK 774	PL	[rptr input to Public Works or Water Bd channels]
453.050	KGP 797	PL	Metro Transit Auth - VIA
453.150	KNFU 400	PL	[unknown use/agency]
453.225	WZU 354	PL	Metro Transit Auth - VIA
453.250	KNGX 632	PL	[unknown use/agency]
453.275	KNER 814	PL	[unknown use/agency] (?Convention Center?)
453.950	KST 252	PL	CPSB-Electric Div.-Ch 1
453.450	KST 252	PL	CPSB-Electric Div.-Ch 2
453.350	KST 252	PL	CPSB-Electric Div.-Ch 3
453.600	KST 252	PL	CPSB-Gas Div.
453.700	KWM 751	PL	[unknown use/agency]
453.750	KWM 751	PL	[unknown use/agency]
453.850	KWM 751	PL	[unknown use/agency]

Schertz:

155.625 R	KNBX 743	PP	PD Ch 1 Dispatch (153.920 in)
156.015	KXA 372	PP	PD Ch 2
154.950	KR 9235	PP	intercity
155.370	KXZ 887	PP	intercity
156.015		PF	FD Dispatch
156.015		PS	Safes EMS Dispatch
156.015		PL	Water Dept, Animal warden, etc.
158.745	KJR 280	PL	

Note: PD also licensed for Guadalupe Co S.O.

Selma:

155.490 R		PP	PD Ch 1 U/C dispatch (154.740 in)
155.535		PP	PD Ch 2
154.950	KS 2509	PP	intercity

Note: PD dispatched by Universal City. VFD dispatched by B.C. Fire Alarm on 154.250. EMS provided by Schertz EMS, 156.015.

Shavano Park:

460.100	KNDZ 314	PP	PD Ch 1
154.950		PP	intercity
453.500		PP	use?
453.325	KNDZ 321	PL	Local Gov't

Note: PD dispatched by Univ of Tx at SA. VFD dispatched by B.C. Fire Alarm on 154.250. EMS serviced by SA EMS.

Somerset:

155.790		PP	PD Dispatch -BCSO dispatch
154.950		PP	intercity

Note: PD dispatched by B.C.SO. VFD dispatched by B.C. Fire alarm on 154.250. EMS serviced by unknown amb svc.

St. Hedwig:

155.790		PP	Town Marshal - BCSO dispatch
155.985		PP	BCSO dispatch

Note: VFD dispatched on B.C. Fire Alarm, EMS service provided by Schertz EMS.

Terrell Hills:

155.430		PP	PD Dispatch
155.040	KCQ 318	PP	PD Ch 2
154.950	KF 9402	PP	intercity
154.370		PF	FD Dispatch
155.040	KCQ 318	PL	Local Gov't

Note: PD, FD & EMS dispatched by Alamo Heights.

Universal City:

155.490 R	KVN 720	PP	PD Ch 1 Universal City Dispatch (154.740 in)
155.535		PP	PD Ch 2
155.370	KVN 720	PP	intercity
154.950	KP 7201	PP	intercity
154.325	KEC 919	PF	FD Dispatch
158.745	KFM 484	PL	Local Gov't
158.775	KNAT 355	PL	Local Gov't

Note: EMS serviced by Safes Ambulance, 156.015, in Schertz.

University of Texas/San Antonio: (unconfirmed)

453.650	KVF 706	PP	?UTSA PD dispatch?

Windcrest:

155.670 R	WXP 369	PP	PD Dispatch (155.310 in)
154.950	WXP 369	PP	intercity
155.370	WXP 369	PP	intercity
154.250		PF	FD Dispatch
155.145		PF	FD Ch. 2
155.145	KVX 747	PL	Local Gov't

Note: FD dispatched by B.C. Fire Alarm. EMS handled by SA EMS on 155.220.

That about wraps up my end of the column. Thanks to Ronald for providing input for this S.A. Update...Many thanks again, Ron!

Other notes before I turn it over to Ken: The Austin Police Dept has been using a new (but previously assigned/licensed) frequency -- 460.475. They refer to it as Ch. 12; however, little, if any, real use noted as of 1/86. It looks like some of the previously unused frequencies are now being used. Austin Fire Dept has added Engine 28 to their list of active units. Station 28 is still in the planning stages, so the unit is presently stationed at Station 25. E.M.S. notes -- Both Starflight Helos are now in use. Aid 16 now active.

I hope to have more info on a new program APD's Robbery Detail is using. Not much info out on it; it may be they want to keep it under

their hats for a while. If they go public on the info, I'll pass it on as soon as possible.

That's about it for now from me, now I'll turn it over to Ken....

Hello from Ken... I haven't got too much to say. Back in the August 85 column I asked for any info concerning a 155.340 repeater that I had been hearing on tropo skip. I again have been hearing this mystery repeater lately. This time some locations have been mentioned...U.S. Highway 80. That only eliminates about half the state, since Hwy 80 bisects the state from El Paso to Midland/Odessa to Abilene to D/FW to Longview/Marshall, at times being part of I20. Are there listeners out there who might be able to help me pin this down? No response came from the first inquiry.

I was highly impressed by the San Antonio input from Ron, TX-11. Ron, on behalf of Rich, all readers, and myself, please accept our thanks for the great response to our plea for San Antonio information!

We shall run a complete Bexar County/San Antonio profile in the coming months after some computer files are successfully (hopefully) transfered from one type of word processor file to another, as well as awaiting any further response of input that may come along. So as they say on the late show, watch for it in your mailbox.

In the last day or so I have gotten some input from Brad (OH-138) and Phil (TX-97). Since this month's column is running a bit long we will hold it till next month, so watch for some further D/FW notes and some Montgomery County notes, among other items, as well.

With that all said and done, it is high time to get this column in the mail box as we are running a bit late, as always. Until then, take care and Happy Listening.

PUBLIC SAFETY — GREAT LAKES:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

Jack Waterman, 466 Kings Way, Mundelein, IL 60060

HELLO! Welcome to Public Safety/Great Lakes for March, 1986. This month's column will be another attempt at 'short and sweet,' omitting the 'chat' as some of you requested. Let me know how you like this slimmed-down approach because, in honesty, my personal preference is to put more of the informal conversational style into the column, and at least some of you agreed in the readers' survey [Hi, BOB!].

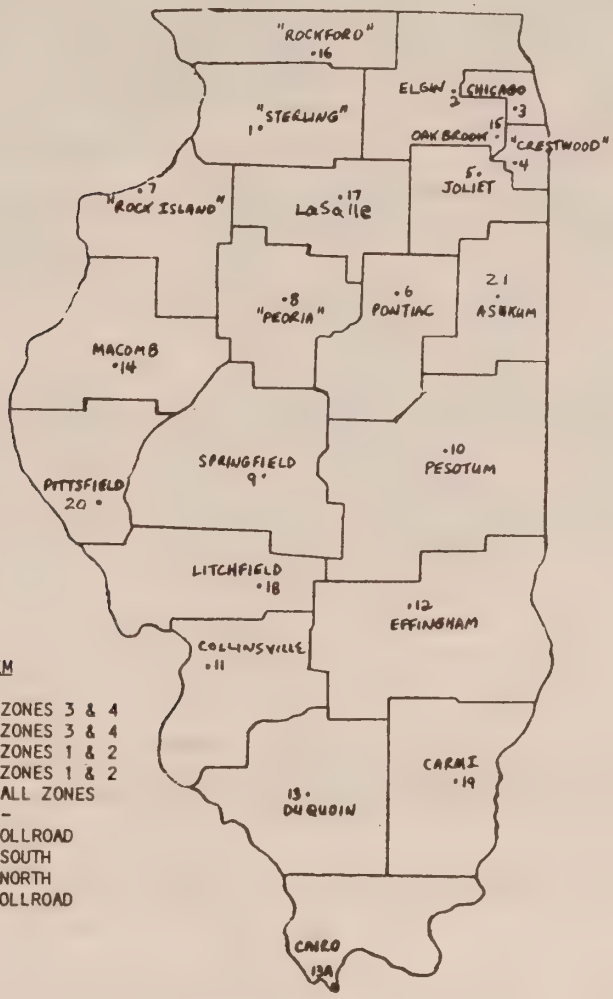
--

THE EDITOR'S FILES - As I was looking through my column files at the start of the new year, I found several maps submitted by readers over the last three years. I thought some of the newer readers might appreciate a look back. **ILLINOIS State Police** and **OHIO Highway Patrol** this month, complete with freqs. Future months will bring the balance of column area state police/patrol maps and freqs, as well as Highway Departments and other materials in map form. Hope you find them useful: be sure to submit any updates and corrections you know of.

ISP PATROL FREQUENCIES

DISTRICT	NAME	LF-1	HF-2	X-WAYS
1	Sterling	42.52/42.72		
2	Elgin	42.62/42.68	154.695	
3	Chicago	42.56	154.935	42.88
4	Crestwood	42.34	154.680	42.66
5	Joliet	42.60/42.70	154.920	
6	Pontiac	42.52/42.72		

7	Rock Island	42.34/42.84	154.845
8	Peoria	42.36	155.520
9	Springfield	42.66	154.935
10	Pesotum	42.54	154.695
11	Collinsville	42.56/42.70	154.665
12	Effingham	42.52/42.72	154.680
13/13A	DuQuoin/Cairo	42.60/42.68	154.935
14	Macomb	42.60/42.70	154.680
15	Oak Brook	See Tollroad Listings	
16	Rockford	42.44/42.70	155.520
17	LaSalle	42.46	
18	Litchfiled	42.34	
19	Carmi	42.46	
20	Pittsfield	42.62/42.68	154.680
21	Ashkum	42.44/42.84	



TOLLROAD SYSTEM

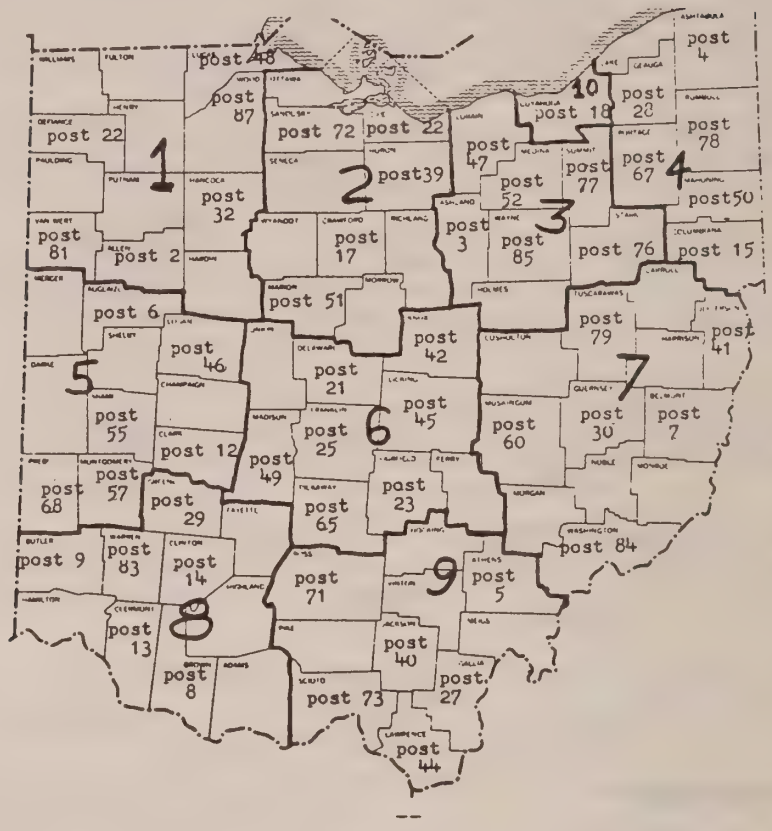
F-1	854.9875	ZONES 3 & 4
F-2	855.2375	ZONES 3 & 4
F-3	855.4875	ZONES 1 & 2
F-4	855.7375	ZONES 1 & 2
F-5	855.9625	ALL ZONES

ZONE 1: EAST-WEST TOLLROAD
ZONE 2: TRISTATE SOUTH
ZONE 3: TRISTATE NORTH
ZONE 4: NORTHWEST TOLLROAD

OHIO HIGHWAY PATROL

Freq	Use
44.94B 45.26M	DISPATCH: Dist 1,6,7
44.98B 44.82M	DISPATCH: Dist 2,4,8
44.74B 44.86M	DISPATCH: Dist 3,5,9,10
45.02B/M	Statewide
45.10B/M	Statewide backup
42.56	INTERSYSTEM: Dist 1,3,9
45.86	INTERSYSTEM: Dist 2,4,8

42.08	INTERSYSTEM: Dist 5
42.42	INTERSYSTEM: Dist 6,7
45.14	INTERSYSTEM: Dist 3
155.685	TOLLROAD: Law enforcement
155.790	TOLLROAD: Law enforcement
159.165	TOLLROAD: Maintenance, ambulances
158.985	TOLLROAD: Maintenance



DUCOMM - DuPage County Public Safety Communications frequency utilization was detailed for the RCMA Chicago membership in a handout some time ago. You'll never figure this out by referring to standard frequency lists, so here's the complete plan.

DUPAGE PUBLIC SAFTEY SAFTEY COMMUNICATIONS

(DUCOMM)

FIRE

FIRE EAST - 154.415 out, 154.145 in

Elmhurst, Lombard, Oakbrook Terrace, Villa Park, York Center FPD

FIRE NORTH - 154.175 simplex

Carol Stream, Glen Ellyn, Glenside FPD, Winfield, Wheaton
Leonards Ambulance Service (Golf 130 series)

FIRE WEST - 154.310 simplex NIFERN - 154.265

Bartlett

LOCAL GOVERNMENT

ELMHURST - 154.040 simplex

Public Works, Emergency Services, Police chit-chat

POLICE

CHANNEL 1 EAST - 470.3875 out, 473.3875 in
CHANNEL 2 EAST - 470.3875 simplex

Lombard (Lincoln), Villa Park (Victor)

CHANNEL 3 EAST - 470.8875 out, 473.8875 in
CHANNEL 4 EAST - 470.8875 simplex

Elmhurst (Echo), Oakbrook Terrace (Ocean)

CHANNEL 1 WEST - 470.6875 out, 473.6875 in
CHANNEL 2 WEST - 470.6875 simplex

Bartlett (Bravo), Carol Stream (Charlie), Hanover Park (Yankee)

CHANNEL 3 WEST - 471.1375 out, 474.1375 in
CHANNEL 4 WEST - 471.1375 simplex

Glen Ellyn (Golf), Wheaton (Tango), Winfield (William)

CHANNEL 5 AREA-WIDE - System-wide alternate - 471.0125 out, 474.0125 in
CHANNEL 6 AREA-WIDE - System-wide alternate - 471.0125 simplex

IREACH - 155.055

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KANE COUNTY - Regular column contributor and former editor **JOHN** [IL-012] sent a nice note complimenting **SCOTT**'s [WI-039] contribution on Kane County in January PS/GL. John also added these details:

1. Aurora PD [911 center] is the primary dispatch agency for Maywood, South Park, North Aurora, Moecherville, and Sugar Grove FD's. The 911 system automatically routes emergency calls to Aurora PD. These Depts are all volunteer so their stations are not continually manned.

2. Montgomery PD is the primary dispatch agency for the Montgomery and Countryside FD, operating on 154.250 mHz [this freq was omitted from Scott's report]. Capabilities on 154.070 also exist for liaison with neighboring Depts. Montgomery FD units are identified with an M- prefix followed by a number; e.g. M-2, M-8, etc.

3. Kane County Sheriff Dept is the primary dispatch point for the Elburn, Kaneville, Pingree Grove, Burlington, Big Rock, Hampshire, and Maple Park FD's. 911 routes the calls to Kane Co SD.

4. Sometime in 1986, all FD's in Kane Co will have NIFERN capability, with bases and mobiles on 154.265 mHz.

JOHN also sent his own 'top 12' list, which appears below. Thanks, **JOHN**, for sharing your knowledge and experience with us once again.

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PEORIA COUNTY, IL - When **IL-272** submitted his Readers' Survey, he included a five-page printout of freqs from Peoria Co. I'll publish half of the list this month and half next, just to prove that I really appreciate my 'downstate' readers.

PEORIA COUNTY PUBLIC SAFETY OCTOBER, 1985
Page 1

LICENSEE	MHZ	SV	USE	CALLSIGN	NOTES
AKRON-PRINCEVILLE FD	154.1750	PE	FBM	KSE279	F3 FIREGRND
AKRON-PRINCEVILLE FD	154.2650	PE	FBM	KSE279	F2 M-AID
AKRON-PRINCEVILLE FD	154.3700	PE	FBM	KSE279	F1 DISPATCH
AKRON-PRINCEVILLE FD	154.4150	PE	MO	KSE279	STARK CNTY
AMER. NAT. RED CROSS	47.4200	PS	FB	KZE431	
APA AMBULANCE	155.2200	PS	FBM	KAZ687	DISPATCH
APA AMBULANCE	155.3400	PS	MO	KAZ687	MERCI

B&B AMBULANCE	155.2200	PS	FBM	KSD578	DISPATCH
B&B AMBULANCE	155.3400	PS	MO	KZ9302	MERCI
BARTONVILLE	154.1000	PL	FBM	KNBW723	VFD
BARTONVILLE	155.0250	PL	MO	KNBW723	VFD ESDA
BARTONVILLE	155.0550	PL	MO	KNBW723	IREACH
BARTONVILLE VFD	155.2200	PS	FBM	KNGD359	C-MED
BARTONVILLE VFD	155.3400	PS	MO	KNDG359	MERCI
BARTONVILLE VFD	468.0000	PS	MO	KNDG359	MED 1
BARTONVILLE VFD	468.0250	PS	MO	KNDG359	MED 2
BARTONVILLE VFD	468.0500	PS	MO	KNDG359	MED 3
BARTONVILLE VFD	468.0750	PS	MO	KNDG359	MED 4
BARTONVILLE VFD	468.1000	PS	MO	KNDG359	MED 5
BARTONVILLE VFD	468.1250	PS	MO	KNDG359	MED 6
BARTONVILLE VFD	468.1500	PS	MO	KNDG359	MED 7
BARTONVILLE VFD	468.1750	PS	MO	KNDG359	MED 8
BARTONVILLE VFD	467.9500	PS	MO	KNDG359	MED 9
BARTONVILLE VFD	467.9750	PS	MO	KNDG359	MED 10
BARTONVILLE, VILLAGE	153.9500	PF	MO	KNBY462	FIREGROUND
BARTONVILLE, VILLAGE	154.1750	PF	FBM	KNBY462	F3 FIREGRND
BARTONVILLE, VILLAGE	154.2650	PF	FBM	KNBY462	FIRE M-AID
BARTONVILLE, VILLAGE	154.3700	PF	FBM	KNBY462	COUNTY FIRE
BARTONVILLE, VILLAGE	154.1000	PL	FBM	KDT334	DISPATCH
BARTONVILLE, VILLAGE	154.8300	PP	MO	KU6663	POLICE F2
BRIMFIELD FIRE DIST.	154.1750	PF	FBM	KSE880	F3 FIREGRND
BRIMFIELD FIRE DIST.	154.1750	PF	FBM	KNBL428	F3 FIREGRND
BRIMFIELD FIRE DIST.	154.2650	PF	FBM	KNBL428	F2 M-AID
BRIMFIELD FIRE DIST.	154.2650	PF	FBM	KSE880	F2 M-AID
BRIMFIELD FIRE DIST.	154.3700	PF	FBM	KSE880	F1 DISPATCH
BRIMFIELD FIRE DIST.	154.3700	PF	FBM	KNBL428	F1
BRIMFIELD FIRE DIST.	155.0250	PL	MO	KB32590	ESDA
BRIMFIELD FIRE DIST.	155.0550	PL	MO	KB32590	IREACH
BRIMFIELD FIRE DIST.	155.2200	PS	MO	KB28383	C-MED
BRIMFIELD FIRE DIST.	155.3400	PS	MO	KB28383	MERCI
BYE AMBULANCE	155.2200	PS	MO	KZ9302	C-MED
BYE AMBULANCE	155.3400	PS	MO	KZ9302	MERCI
CHILLICOTHE TOWNSHIP	155.9550	PL	FBM	KZV871	HWY. DEPT.
CHILLICOTHE, CITY OF	154.3250	PF	FBM	KDS688	DISPATCH
CHILLICOTHE, CITY OF	154.0850	PL	FBM	KNFZ525	
CHILLICOTHE, CITY OF	39.5000	PP	FB	KSB568	SHERIFF
CHILLICOTHE, CITY OF	155.3700	PP	FB	KSB568	INTERSYSTEM
CHILLICOTHE, CITY OF	155.6700	PP	FBM	KSB568	PD DISPATCH
DUNLAP FIRE DIST.	154.0700	PF	MO	KFV554	F13 PEORIA
DUNLAP FIRE DIST.	154.1450	PF	FBM	KFV554	F12 PEORIA
DUNLAP FIRE DIST.	154.1750	PF	FBM	KFV554	F3 FIREGRND
DUNLAP FIRE DIST.	154.2650	PF	FBM	KFV554	F2 M-AID
DUNLAP FIRE DIST.	154.3250	PF	FBM	KFV554	F8 CHILLI
DUNLAP FIRE DIST.	154.3700	PF	FBM	KFV554	F1 DISPATCH
DUNLAP FIRE DIST.	460.6000	PF	MO3	KFV554	
DUNLAP FIRE DIST.	465.6000	PF	MO	KFV554	
DUNLAP FIRE DIST.	153.7550	PL	FX1	KNBC439	F4 ESDA
DUNLAP FIRE DIST.	155.0250	PL	FBM	KNBC439	F11 ESDA
DUNLAP FIRE DIST.	155.0550	PL	FBM	KNBC439	F7 IREACH
DUNLAP FIRE DIST.	155.1150	PL	FBM	KNBC439	F5 ADMIN.
DUNLAP FIRE DIST.	158.9250	PL	MO	KNBC439	
DUNLAP RESCUE SQUAD	155.1600	PS	MO	KAJ202	MERCI
DUNLAP RESCUE SQUAD	155.2050	PS	MO	KAJ202	MRSHAL CNTY.
DUNLAP RESCUE SQUAD	155.2200	PS	FBM	KAJ202	F6 C-MED
DUNLAP RESCUE SQUAD	155.2800	PS	MO	KAJ202	F14 MERCI
DUNLAP RESCUE SQUAD	155.2950	PS	MO	KAJ202	STARK CNTY.
DUNLAP RESCUE SQUAD	155.3400	PS	MO	KAJ202	F9 MERCI
DUNLAP RESCUE SQUAD	155.4000	PS	MO	KAJ202	MERCI
DUNLAP RESCUE SQUAD	458.0250	PS	MO	KAJ202	SUB-MED 2
DUNLAP RESCUE SQUAD	458.0750	PS	MO	KAJ202	SUB-MED 4
DUNLAP RESCUE SQUAD	458.1250	PS	MO	KAJ202	SUB-MED 6
DUNLAP RESCUE SQUAD	458.1750	PS	MO	KAJ202	SUB-MED 8
DUNLAP RESCUE SQUAD	462.9500	PS	FB2	KAJ202	MED 9
DUNLAP RESCUE SQUAD	462.9625	PS	MO	KAJ202	
DUNLAP RESCUE SQUAD	462.9625	PS	MO3	KAJ202	V-RPTR
DUNLAP RESCUE SQUAD	462.9750	PS	FB2	KAJ202	MED 10
DUNLAP RESCUE SQUAD	467.9500	PS	MO	KAJ202	MED 9
DUNLAP RESCUE SQUAD	467.9750	PS	MO	KAJ202	MED 10
DUNLAP RESCUE SQUAD	468.0000	PS	MO	KAJ202	MED 1

DUNLAP RESCUE SQUAD	468.0250	PS	MO	KAJ202	MED 2
DUNLAP RESCUE SQUAD	468.0500	PS	MO	KAJ202	MED 3
DUNLAP RESCUE SQUAD	468.0750	PS	MO	KAJ202	MED 4
DUNLAP RESCUE SQUAD	468.1000	PS	MO	KAJ202	MED 5
DUNLAP RESCUE SQUAD	468.1250	PS	MO	KAJ202	MED 6
DUNLAP RESCUE SQUAD	468.1500	PS	MO	KAJ202	MED 7
DUNLAP RESCUE SQUAD	468.1750	PS	MO	KAJ202	MED 8
DUNLAP, VILLAGE OF	155.0550	PL	MO	KNBC440	IREACH
DUNLAP, VILLAGE OF	155.1150	PL	FBM	KNBC440	
DUNLAP, VILLAGE OF	158.9250	PL	MO	KNBC440	
DUNLAP, VILLAGE OF	155.3700	PP	FB	KS0416	INTERSYSTEM
ELMWOOD FD	154.3700	PE	FBM	KGW779	DISPATCH
ELMWOOD, VILLAGE OF	155.0550	PL	MO		IREACH
ELMWOOD, VILLAGE OF	155.8050	PL	FBM		POLICE
GREATR PEORIA AIRPRT	154.2650	PE	FBM	KMB642	FIRE M-AID
GREATR PEORIA AIRPRT	154.3700	PE	FBM	KMB642	FIRE F1
GREATR PEORIA AIRPRT	453.2750	PL	FB2	KUN861	SECURITY
GREATR PEORIA AIRPRT	458.2750	PL	MO	KUN861	SECURITY
GRTR PEO MASS TRANS	453.3250	PL	FB2	KXZ268	
GRTR PEO MASS TRANS	453.7500	PL	FB2	KXZ268	
GRTR PEO MASS TRANS	458.3250	PL	MO	KXZ268	
GRTR PEO MASS TRANS	458.7500	PL	MO	KXZ268	
HANNA CITY	153.7550	PL	FX1		ESDA
HANNA CITY	155.0250	PL	FBM		ESDA COMMON
HANNA CITY	155.0550	PL	MO		IREACH
ILLINOIS, STATE OF	47.3000	PH	FBM	KSI758	DIST 4 BASE
ILLINOIS, STATE OF	47.3800	PH	FBM		DIST. 4
ILLINOIS, STATE OF	45.4000	PL	FB	KAJ947	ESDA WEATHER
ILLINOIS, STATE OF	45.4400	PL	FB	KAJ947	WEATHER BUR

Thanks for that detailed review, IL-272. By the way, the omission of this contributor's name was by request.

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READER SURVEY FAVORITE FREQS - As promised last month, here are some more of your own "Top 12." They must be good because at least someone monitors them regularly.

FROM JOHN [IL-012] OSWEGO, IL

460.525	Kendall Co SD sheriff/local disp
39.68	Kendall Co SD local disp
39.40	Oswego/Yorkville PD's
39.82	Kendall Co ESDA
39.50	Plan PD [rural IL law enf'mnt]
42.50	ISP Statewide LF-2
46.38	Kendall Co FD's
33.04	Oswego School Dist 308 [!]
154.040	Montgomery PD "Code 14"
155.565	Montgomery PD
154.250	Montgomery PD/Aurora FD

FROM [IL-272]

154.370	Peoria Co Fire
154.265	Fire Dept mutual aid freq
154.175	Peoria Co FD's fireground
154.295	Peoria Co ESDA reptr
155.115	Dunlap Administrative
155.220	Peoria C-MED
155.055	IREACH
154.325	Fire
155.340	MERCI/Hospital Net
155.460	ISP HF-4 [Ch 7]/MERCI
155.025	Statewide ESDA
154.145	Peoria Fire

FROM GARY [MI-077] BATTLE CREEK, MI

42.58	MSP Base to car
42.74	MSP Car to base
154.250	Battle Creek Fire
154.400	Springfield, Emmett Twp, Pennfield Twp Fire
154.160	Marshall, Calhoun Co Fire
154.815	Battle Creek PD F-1
154.860	Springfield, Emmett Twp, Pennfield Twp PD F-3
154.755	Battle Creek Area LEIN F-2
155.865	Battle Creek Area PD F-34
155.535	Calhoun Co Pd's
155.640	Marshall City PD
155.340	Battle Creek Area HEARN

FROM CARL [WI-054] MAYVILLE, WI

46.42	Fond du Lac Co Fire
46.20	Washington Co Fire
154.130	Marquette Co Fire
154.310	Fond du Lac Fire
154.430	Waukesha Co Fire
154.445	Dodge Co EMS/Fire Paging
154.280	Manitowoc Co Fire
154.220	Calumet Co Fire
46.48	Dodge Co Fire
45.88	Fire Mutual Aid
46.14	Green Lake Co Fire
154.295	FIRECOM

FROM BOB [IL-269] GLENVIEW, IL

154.445	RED CENTER [FIRE]
154.265	MABAS
155.400	MERCI-400
470.7125	NORCOM: Glenview, Niles, Morton Grove PD's
155.250	Glenview PD F-2, Northfield PD F-10, Wilmette, Glencoe, Winnetka, Kenilworth PD's F-2
155.880	Morton Grove, Glenview DPW's, Morton Grove PD F-2
150.025	Northfield, Maine Twp DPW
155.595	Cook Co Sheriff North
155.475	ISPERN
126.200	NAS Glenview Tower
162.550	NWS Chicago
140.100	NAS Glenview Police
140.025	NAS Glenview Fire

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CORRESPONDENTS - Once again I beg your pardon and patience. I'm disgracefully behind in answering my mail. Most of you who submitted Readers' Surveys will receive your acknowledgement by way of seeing your 'Top 12' here, I'm afraid; those who asked specific questions or directly asked for a reply and enclosed a S.A.S.E. will hear from me eventually. Please keep up the high level of column support, however; your dedication makes PS/GL what it is!!

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In the immortal words of Porky Pig, "That's all, folks." Just in case some of you decide to make the ultimate sacrifice for Lent and give up the scanner for forty days, you'd better get a head start on Good Friday, which comes early this year, and

TRACK 'EM DOWN !! WRITE 'EM UP !! SEND 'EM IN !!

PUBLIC SAFETY — NORTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — New England states, New York, Pennsylvania, New Jersey, Maryland, Delaware, and District of Columbia:

Tom Ernst, 207 Milltown Rd., Springfield, NJ 07081

Greetings and welcome to Public Safety - North East. First of all I would be remiss if I did not thank Rich Barnett on behalf of the membership for all he has done for this organization. I am sure we will see his name from time to time within the pages of future newsletters.

Briefly I would like to tell you a little about myself. I am a Career Firefighter and the Communications Officer for the Springfield Fire Department. I have been monitoring Public Safety since I was about 6 years old; when I used to listen to the Newark Police on my parents Dumont TV. Over the years I have owned many scanners including the Tennelec, SBE Optiscan, and many others. My current equipment consists of two Bearcat 250's, a Regency HX-1000, Regency ACTR-10 H/L/U, Regency MCA611 tone alert receiver, and a Motorola Minitor pager. I am currently looking into an 800mhz scanner. I have also recently purchased an Apple 2C computer to help me coordinate my files and my articles. If anyone out there knows of a program to file my frequencies please let me know.

My articles will consist of any communications information which is printable from the North East. If you hear of any new Public Safety radio systems, frequencies, or what have you regarding communications; please send them along to me and I will use it in future articles. I know that many of you out there have some valuable information stored somewhere just screaming to be shared with others. Remember that information is if no value unless shared with others.

Newark Fire Department: 154.13R / 154.34M

As anyone who has ever listened to the Newark Fire Department on their scanner can tell you; their are many outside stations which interfere with their broadcasts. It is not unusual to hear a Chief screaming for help while out in good old North Hampton Pa. fifteen tones are going out to alert the local First Aid squad of a man who has had diarrhea for the last week. Please don't think that I am belittling that department. It is certainly important to that poor guy. The Newark Fire Dept.,If you have not guessed by now does not have a private line on their

radio equipment. The reception of these other towns almost always out powers the city.

It had been rumored for some time that Newark was looking for a new radio system. Over the summer the Fire Dept. applied for new 800mhz frequencies. It has now been rumored that they might go with a trunked system in conjunction with the Police and Sanitation Depts. I will keep you updated as more information becomes available.
To follow are the radio codes used by the Newark Fire Dept.

Radio Codes:
Signal 5 - Single unit response
Signal 8 - 1 (ENG) , 1 (TRUCK), and Battalion Chief
Signal 9 - 2 (ENG's.), 1 (TRUCK),& Battalion Chief
Signal 10 - 4 (ENG's), 2 (TRUCKS), Deputy & Battalion Chief
Signal 11 - Working Fire - Signal 10 assignment plus Rescue
Signal 100 - Arson squad respond immediately
Signal 102 - Notify Arson squad. Response not urgent.
Signal 200 - DOA (Fire related)
Signal 300 - False alarm
Signal 305 - One unit can handle situation
Signal 308 - Signal 8 assignment can handle
Signal 309 - Signal 9 assignment can handle

Many Fire Depts in the area also use these same or similar codes. I will update these in future articles.

Monitoring has progressed over the years from a single channel crystal radio to the more sophisticated computerized scanners and tuneable radios we now have. So to has the manner and professionalism which we all use to listen to our favorite frequencies.

One of the recent developments to our hobby has been the introduction of various two - way radio monitoring groups to the scanner scene. These groups keep their members advised of most major incidents via GMRS band two-way radios. It is however a little difficult to listen to these channels with your scanner since the radios that they use all have private line (CTCSS) codes installed. If your are not bothered by having to listen to invalid coach services, tow truck operators and what have you ; then these frequencies can be very interesting to listen to and sometimes very informative also. A number of these groups have been using the airwaves in the New Jersey, New York , and New England areas. Also many of their members are RCMA members.

New Jersey has a number of these organizations. Among them are the Jersey City Notification group which uses 463.55mhz. Their members mostly are fire buffs and give some good reports from the scene of working fires. Most likely the largest group is the Emergency Notification System. This system which has its base of operations in North Jersey covers most if not all of NE New Jersey and the 5 boroughs of New York. This system has been heard from as far as Bridgeport Ct. and from as far as Asbury Park New Jersey. They operate on a frequency of 462.700mhz. If anyone is interested in the Emergency Notification System they may be contacted at P.O. Box 741, Ridgewood N.J. 07451-0741 for further details.

New York City also has at least one system up at this time. This group is known as Citywide and operates on 461.65mhz. The members are mostly radio communication buffs and media people.

Keith, CT-042 also runs a number of systems in the Greater Hartford Ct. area. His operable frequencies are 464.975mhz, 461.55mhz, and a media channel of 461.275mhz which is a statewide channel for the various press agencies. His other channels are mostly used by radio buffs.

Massachusetts now has a system for coverage in the Metro Boston area. The Chelsea Notification group, as I believe they are known, use the same frequency and private line as the Jersey City Notification group does. This allows coverage for both groups when they visit each others area.

I am sure that their is other groups operating similar radio systems out there. If I have missed your group please let me known and I will include them in future articles.

Paterson New Jersey Fire Codes:
Frequency : 46.20 mhz

Editors note: The Paterson Fire Dept. has applied for two other low band frequencies. More on this when it becomes available.

10-1 ALL UNITS STAND BY
10-2 AT SCENE

10-3 MINOR FIRE
10-4 ACKNOWLEDGED
10-5 WORKING FIRE
10-6 RETURN ALL UNITS NOT NEEDED AT SCENE
10-7 FALSE ALARM
10-8 THIS UNIT AVAILABLE
10-10 LOCATION
10-11 REPEAT MESSAGE
10-12 SEND POWER UTILITY COMPANIES
10-13 SEND POLICE AND OR AMBULANCE
10-15 CALL BY LAND LINE
10-16 CHIEF REQUIRED AT SCENE
10-17 REQUEST ADVANCED LIFE SUPPORT AMBULANCE TO SCENE
10-18 HAVE ARSON SQUAD RESPOND
10-19 FATALITY
10-20 SPECIAL CALL RIGS TO SCENE
10-21 FILL IN FIRST ALARM ASSIGNMENT
10-22 2ND ALARM
10-33 3RD ALARM
10-44 4TH ALARM
10-55 5TH ALARM
10-66 ACTIVATE SPARE RIGS (RECALL OF MANPOWER)
10-77 REQUEST MUTUAL AID
10-80 FIRE UNDER CONTROL

Maryland: Baltimore City Police Frequencies
453.425R DISTRICT 1 (CENTRAL)
453.775R DISTRICT 2 (SOUTHEAST)
453.275R DISTRICT 3 (EAST)
453.525R DISTRICT 4 (NORTHEAST)
453.825R DISTRICT 5 (NORTH)
453.925R DISTRICT 6 (NORTHWEST)
453.625R DISTRICT 7 (WEST)
453.050R DISTRICT 8 (SOUTHWEST)
453.675R DISTRICT 9 (SOUTH)
453.200R & 453.300R ARE CITYWIDE CHANNELS
453.650R TACTICAL
460.050R INTERSYSTEM

It must be mentioned that the patrol vehicles use number identifications to correspond with the districts they work out of. As an example all cars in District 1 would be identified as car 100, 101 etc.

CONNECTICUT:

FROM KEITH- CT-042 UNIVERSITY OF CONN. HEALTH CENTER RADIO CODES :
155.715MHZ KLG-621
CODE 1 RESPOND RIGHT AWAY, OBEY TRAFFIC LAWS
CODE 2 RESPOND IMMEDIATELY, DO NOT BREAK TRAFFIC LAWS UNLESS NECESSARY
CODE 3 RESPOND IMMEDIATELY, LIGHTS AND SIREN, EXERCISE CAUTION

1A AUTO ACCIDENT
1B AUTO ACCIDENT W/INJURIES
2A COMPLAINT
2B MEDICAL CALL
2C ASSAULT
2D BREACH OF PEACE
2E INTOXIFICATION
2G DISTURBANCE
2H LARCENY
2I INDECENT EXPOSURE
3A EVADING RESPONSIBILITY
3B OPERATOR UNDER INFLUENCE
4A WANTED/ HOLD PATIENT
4B MISSING PATIENT
5A STOLEN MOTOR VEHICLE
5B STOLEN REGISTRATION PLATES
6A ESCORT
6B ASSIST MOTORIST
7 BURGLARY
8 ROBBERY
9D DECEASED PERSON
9H HOMICIDE
9S SUICIDE
10 UNLOCK DOOR
10A LOCK DOOR
11 REPORT TO _____
12 RADIO CHECK
13 DEPT. MEMBER IN TROUBLE
14 ANIMAL
15 PROWLER
16 ALARM
17 TRANSPORTING
18 STOPPING M.V.
19 BUILDING CHECK
20 BLOCKADE
21 ON THE AIR
22 OFF THE AIR
23 EMERGENCY OTHER THAN FIRE
24 TELEPHONE GIVE NUMBER
24A CALL YOUR HOME
25 SPECIAL DETAIL
26 BOMB THREAT
27 TRAFFIC POST
28 REGISTRATION CHECK

38	VANDALISM	29	WATCH CONVERSATION
40	LOCATION	30	CLEAR AIR/STAND BY
41	TIME CHECK	31	REPEAT MESSAGE
42	BACK UP REQUESTED	32	WRECKER
50	ALARM OF FIRE	33	ILLEGAL PARKING
54	SITUATION UNDER CONTROL	34	PERSONEL RELIEF
65	WORKING FIRE	35	MEAL BREAK
71	RETURNING	36	WEAPON
83	PROCEED WITH CAUTION	36G	GUN
87	ARRIVED ON SCENE	37	SUSPICIOUS PERSON

Well thats about it for now. I hope the above information has been informative to you. In order to keep the articles informative I will need each and everyones assistance. If you have any questions, suggestions, items you would like to see featured, information, rumors , new systems or what ever please send it to me; Tom Ernst, 207 Milltown Rd.,Springfield N.J. 07081.(NJ-164). If anyone out there has a set of RCMA newsletters for sale please contact me!

PUBLIC SAFETY — NORTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details and questions as follows — Iowa, Kansas, Missouri, Nebraska, N. Dakota, S.Dakota, and Minnesota:

Kurt Swaney, P.O. Box 1198, Manhatten Beach, CA 90266-8198

NEWS:

Your contributions are really starting to pile up! I will do my best to print everything as soon as possible.

From Ron, IA-49: AMES, IA

Ames, IA, population 46,000, is almost exactly in the center of the State of IA along Interstate 35 about twenty-five miles North of Des Moines. Ames is the home of Iowa State University and is in Story county, adjacent to Boone county.

DPS	IA Department of Public Safety
IHP	IA Highway Patrol
LEA	Law Enforcement Assistance

155.010	S		Boone County Sheriff	KVN 493
155.010	S		Story County Sheriff (dispatch)	KAA 241
155.370	S		intersystem (point-to-point)	
155.550	S		Story County Sheriff (information)	KAA 241
155.430	M		IHP M-to-M	
155.505	S		IHP Aircraft	
155.640	R	F1	IA DPS (area 1, Des Moines)	KUV 796
155.655	R	F2	IA DPS (area 2, Blairsburg)	KFQ 895
155.685	R	F2	LEA (area 2, Blairsburg interagency)	KFQ 895
155.790	R	F1	LEA (area 1, Des Moines interagency)	KUV 796
155.400	S	F2	regional EMS	
453.050	R		City of Ames	
453.400	R		Ames FD	KDL 967
453.550	R		City of Ames	
460.100	R		IA State University Security	KAJ 316
460.200	R	F1	Ames PD	KAB 216
460.375	R	F2	Ames PD	KAB 216
158.950			Ames CyRide	
159.180	R	F1	IA Department of Transportation	
159.195	R	F2	IA Department of Transportation	
160.890	S		railroad	
161.730			WOI Television	

?: What is CyRide? Mass-transit?
?: What is the difference between HP and DPS?

From Michael, MO-89: SULLIVAN, MO

Sullivan, MO, population 5,500, is located sixty-five miles SouthWest of St. Louis on Interstate 44. Sullivan is in Franklin county, adjacent to Crawford county.

FPD Fire Protection District
MHP MO Highway Patrol

42.060	H,B	F1	MHP (Troop I dispatch, Rolla)	KAA 958
	M	F2	MHP (Car-to-Car)	
42.120	H,B	F3	MHP (Troop C dispatch, Kirkwood)	KAA 203
	M	F4	MHP (Car-to-Car)	
42.220	M	F1	MHP (paired with 42.06)	KA 5824
42.320	M	F3	MHP (paired with 42.12)	KA 5824
42.380	S,B		MHP intersystem	
151.040	R		MO Highway Department (district 6)	
155.370			intersystem	
	S		Bourbon PD	WXY 416
	S		Crawford County Sheriff	KQR 458
	S		Franklin County Sheriff	KYJ 263
	S		MHP	
	S		Sullivan PD	KWV 526
155.475			national mutual aid	
	S		Bourbon PD	WXY 416
	S		Crawford County Sheriff	KNJL 454
	S		Franklin County Sheriff	KAL 291
	S		MHP	
	S		Sullivan PD	
155.700	S		Sullivan PD (dispatch)	KWV 526
155.730			sheriff intersystem	
	S		Bourbon PD	WXY 416
	S		Crawford County Sheriff	KQR 458
	S		Franklin County Sheriff	KAL 291
	S		MHP	
	S		Sullivan PD	
155.835	S		Bourbon PD	KVR 737
	S		Crawford County Sheriff (dispatch)	KVP 711
453.400	R		Bourbon PD (mobilephone)	KNAW 982
155.160	S		St. Clair Ambulance (dispatch)	
	S		Union Ambulance (dispatch)	
	S		Washington Ambulance (dispatch)	
155.220	S		Owensville Ambulance	
	S		N Crawford County Ambulance	
	S		S Crawford County Ambulance	
	S		St. Clair Ambulance	
155.340			statewide HEAR	
	S		Owensville Ambulance	KT 9117
	S		N Crawford County Ambulance	
	S		S Crawford County Ambulance	
	S		St. Clair Ambulance	
	S		Union Ambulance	
	S		Washington Ambulance	
155.730			sheriff intersystem	
	S		N Crawford County Ambulance (dispatch)	
	S		S Crawford County Ambulance (dispatch)	
154.235	S		Bourbon FPD	KON 333
	S		Sullivan FPD	
154.280			statewide fire mutual aid	
	S		Bourbon FPD	KON 333
	S		Sullivan FPD	KNGQ 634
154.430	S		Bourbon FPD	
	S		Sullivan FPD	KNGQ 634
155.835	S		Bourbon FPD (dispatch)	KVR 737

S	Cuba FPD	(dispatch)	KVP 713
S	Steelville FPD	(dispatch)	

Thanks Ron and Michael!

SERVICE TOPIC: Emergency Medical Services (EMS), Ambulance Services, and Hospitals

According to Monitor America, only two PSNC states have statewide EMS systems: IA and MN. KS is in the process of establishing an EMS network for the Western part of the state. Don, KS-10, is preparing a report on that system.

IA:	155.340	S	F1	common calling outside local region
	see below	S	F2	regional channel
	various		F3	local dispatch
	155.475	S	F4	national mutual aid

(F2 is one of six: 155.160, .175, .205, .220, .235, .400)

KS:	155.340	S		HEAR
	463.150	V	Med 7	statewide transport channel

Note: Many local KS ambulance services are "assigned" to use certain UHF Med channels on a regular basis. Who does the assigning? Does anyone have an assignment map?

?: What is the correct acronym for "HEAR?"

MN:	MN Department of Health		
	155.325	S	Metro (Minneapolis), NW (Bemidji) districts
	155.340	S	statewide EMS
	155.355	S	NE (Duluth), S Cen (Mankato), W Cen (Fergus Falls) districts
	155.385	S	Cen (St. Cloud), SE (Rochester) districts
	155.400	S	SW (Marshall) district
MO:	155.340	S	HEAR
NB:	39.820	S	statewide EMS
ND:			?
SD:	155.340	S	statewide EMS (HEAR)

MAJOR CITY: Lawrence, KS

This months' Major City is Lawrence, KS. Lawrence is a community of approximately 65,000. Home of both the University of Kansas and Haskell Indian Junior College, Lawrence was the 25th fastest growing city in the nation in 1983. Lawrence is located on Interstate 70 in Douglas County about sixty miles West of Kansas City, MO and thirty miles East of Topeka, KS (the state capital). This frequency information comes from my personal files, Kurt, KS-006. Corrections/ additions are requested.

System Abbreviations

R: repeater system output frequency	B: base station
I: repeater system input freqeuncy	M: mobile
H: half-duplex radio system	V: vehicular repeater
S: simplex radio system	P: portable repeater
SI: inversion scrambling capability	PG: paging only
SD: digital scrambling capability	

(H implies standard B-M, M-M and M-B freqeuncy pairings)

Services

DCAS	Douglas County Ambulance Service
DGSO	Douglas County Sheriff Office
DOT	Department of Transportation (Kansas Highway Commission)
KHP	Kansas Highway Patrol
KTA	Kansas Turnpike Authority
KUPD	University of Kansas Police Department
LFD	Lawrence Fire Department
LPD	Lawrence Police Department

Note: Frequency number definitions are with respect to mobile and/or handheld radios for that service.

39.220	S	F3	DGSO	KAA 242
39.460	S		Intersystem (point-point)	
39.580	S		statewide mutual aid	
39.580	H,B	F2	DGSO (primary dispatch)	KAA 242
39.700	M	F1	DGSO (paired with F2)	KAA 242
153.800	V		DGSO (veh rptr for F1,F2,F3 & 44.98)	
44.820	H,B	F1	KHP (paired with F2)	KA 5431
44.940	M	F4	KHP (Division Nine, Olathe)	KAP 258
44.980	H,B	F2	KHP (Division One, Topeka)	KAA 471
45.140	S	F5	KHP Aircraft	
45.180	M	F3	KHP (paired with F4)	KA 5431
45.400			?	KAA 471

Note: The Lecompton Park KHP satellite downlink has apparently been moved to the 65-70 MHz range (it was originally on 155.475). The uplink from Topeka, 154.935, KVE 58, is still in place.

?: 45.400 is a new KHP listing. Does anyone know anything about it?

?: What does anyone know about 44.80 and 44.92 for statewide Fish and Game?

?: Does anyone know anything about 44.64 for statewide Park Police?

47.120	M	F1	DOT (paired with F2)	
47.180	H,B	F2	DOT (Division One, Topeka)	KRO 271
			DOT (Lawrence office)	KBQ 739
151.085 &				
151.100	R		KTA (maintenance)	KAI 974
154.680 &				
154.830 &				
154.905	R		KHP (turnpike)	KAI 974
155.475	S	?	national mutual aid	
158.910	I		common input to KHP turnpike rptr	KC 8785
159.120	I		common input to KTA maintenance rptr	

Note: 151.085 & .100 simulcast the same radio traffic.
154.680, .830, & .905 simulcast the same radio traffic.
The rptrs alternate along the turnpike to prevent interference.

?: KTA/KHP shows licenses for 155.475, national mutual aid. Does anyone know if the KTA/KHP cars have this frequency yet?

37.620	S		KPL & Gas Service (statewide)	
37.760	S		KPL & Gas Service (Lawrence)	KEP 986
37.980	S		Douglas County Public Works	KAP 353
123.000			Lawrence Airport Unicom	
152.330	B		Yellow Cab of Lawrence	KAL 952
152.390	S		City Cab	
152.810	R	Ch JR	Southwestern Bell Mobilephone	KDN 393
153.290	S		NW Cen Gas Pipeline	KDS 445
153.890	I	F1	LFD	KVP 518
154.040	S		City of Lawrence	KAP 322

154.160	S		Wakarusa Township Fire Dept	KAX 571
154.400	R	F1	LFD	KVP 518
154.400	S	F2	LFD fireground	
155.160	S		Douglas County Skywarn	KNDH 512
155.805	R		Douglas County Civil Defense	KQL 884
156.475	S	Ch 69	Marine non-commercial (Clinton Marina)	WRV 550
156.800	S	Ch 16	Marine Distress/Hailing (Clinton Lake)	
157.590	M		Yellow Cab of Lawrence	
158.070	I	Ch JR	SWB Mobilephone	
158.955	I		Douglas County Civil Defense	KQL 884
160.650	S		Atchinson, Topeka & Santa Fe Railroad	KQP 536
160.740	S		Union Pacific Railroad	KAF 399
162.025	S		Haskell Indian JuCo Security	KKF 560
163.4375	S		Army Corp of Engineers, Clinton Lake	WUH 513
451.575	R		Kansas Public (Gas) Servce	WSQ 317
454.325	R	RCC 33	Lawrence Mobilephone and Paging	KLF 660
464.975	R		USD 497 (busses and maintenance)	KNDE 302

Note: LFD is starting to accumulate four channel radios, but currently only use the repeater and repeater "talk-around."

154.770	I	F1	LPD	KK 3894
155.910	I	F3	LPD	KK 3894
158.790	R	F1	LPD (primary dispatch, M-M)	KJK 675
158.790	S	F2	LPD	KK 3894
159.210	P	F3	LPD (tactical)	KNAS 409
159.210	S	F4	LPD	KK 3894

Note: LPD has SI on F1 & F2 and SD on F3 & F4.

47.420	S		American Red Cross	KNIR 494
155.220	S	F1	DCAS (dispatch)	KWH 559
155.340	S	F2	DCAS (HEAR)	KWH 559
163.250	PG		LMH	KIT 980
468.025	V	Med 2	DCAS (primary)	KWH 559
468.100	V	Med 5	DCAS (secondary)	KWH 559
39.360	S	F1	KUPD (primary dispatch)	KWO 610
39.580	H,B	F3	KUPD (see DGSO)	KWO 610
39.700	M	F2	KUPD (paired with F3, see DGSO)	KWO 610
154.515	S		KU Athletic Corporation	KYL 217
154.540	S		KU Dormitory Security (students)	KRW 965
155.040	S		KU Facilites Operations	KCQ 315
	S		KU Recreational Services (no PL)	KAN 743
453.100	R		KU Parking Service	KNBN 573
460.275	R		KUPD (admin, invest, build security)	KTH 420
460.275	S	Tac 2	KUPD (admin, investigation)	
462.750	PG		KU (dial-in)	WRT 591
151.715	S		Sunflower Cablevision (maint/prod)	KVE 552
	S		Lawrence Daily Journal-World Newspaper	KVE 552
152.990	S	F1	KANU Radio	WZB 695
153.170	S	F2	KANU Radio	WZB 695
153.350	S		KLWN/KLZR Radio	KAM 421
	S		Douglas County Civil Defense	KET 698
450.925	S		KANU Radio Remote Prod Unit (RPU)	WQA 955

?: Does TV Channel 30 (low-power) have a two-way system yet?

151.775	S	Robinson Wrecker	KYD 306
157.470	S	Hillcrest Wrecker	KDA 627
157.500	S	Kaw Motor Wrecker	KVF 618
461.425	R	Jayhawk Wrecker (community rptr)	KNBX 985

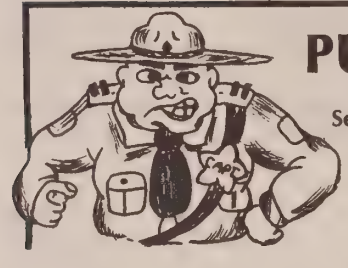
?: Motorola has installed three 800 MHz antennas on their Hillcrest tower. Is this a non-Bell cell site or just an 800 Mhz rptr? There have been both cellular phones and trunked rptr mobile antennas spotted on Douglas county vehicles.

CORRECTIONS: I know their coming...I can just FEEL it!

NEXT MONTH: April 1986
MAJOR CITY: Omaha, NB
SERVICE TOPIC: Public schools, colleges and universities.

CREDITS: Some of the above information came from:

(1) Police Call, Vol 5, Hollins Radio Data, PO Box 35002, Los Angeles, CA 90035
(2) Monitor America, 85-86 ed., SMB Publishing, PO Box 244, Natick, MA 01760



PUBLIC SAFETY — SOUTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Florida, Georgia, N. Carolina, S. Carolina, W. Virginia and Virginia:

COLUMN EDITOR WANTED

Friends, there are some evil germs floating around! Felt so bad one day I went to the local funeral parlor for an estimate.

Before we caught the bug we were going to survey the Fall Survey. Thank you again for your efforts in filling out those forms. I wish we could call it a scientific poll of the desires of the membership, but I doubt if seven responses from six states is a large enough sample to draw conclusions from.

We're going to go through the survey responses and hit the high spots - my comment will be in parentheses.

Question 2, Favorite Subjects to be covered: Public Safety for the member's own area is tops here; New frequencies assigned by FCC (FCC's own microfiche is the source for this); Ten-Codes (This subject has given us a fit. Using the answers to Question 7 as our guide, ALL who responded said they understood local 10-codes. We keep getting requests for codes. I'll print those requests and will forward the info to the person inquiring) ; TV-News (These were determined to be either business or aircraft. FCC microficne is so confusing here it's no help at all. Suggest searching freqs assigned to BA); Cooperation between VA State Police and County Sheriffs in Rural VA (I'll do a real quickie here: HEAR IT ALL ON 39.54); VA Game Commission and Division of Forestry (VA Game Commission has the world's sorriest radio system. It's so bad that wardens work on local Sheriffs' or PD systems usually with GW ID . Forestry operates in the 151.145-151.475 and 159.225-159.465 band except for Tidewater which is on UDSA freqs 170.475, 171.425)

Question 3, 2nd Favorite Subjects to be covered: Areas next to listener's home is tops here; Tourist Attractions (Business); Amateur Radio (Brand New Column)

Question 4, 3rd Choice of subjects to be covered: Federal Govt and Military (Has its own Column); USCG (Also has its own column); University Police (Tricky one- Private Schools are in Business column, Public Schools covered here).

Question 5, Number of and Model of SCANNERS in use: Minimum- 2, Maximum- 5.

Favorite: Bearcat 3, Regency 3, JIL 2.

Question 8, Average time spent monitoring: 4 to 10 hours per day.

Question 9, Mobile Scanner? 5 out of 7 YES, Favorite- Bearcat 3, Fox 1.

Question 10, Sources of information other than the Newsletter? Popular Comm'ns, SCAN, FCC Microfiche, Police Call, searching, daily contacts, other members.

Question 11, Profiles; YES to their being in the Newsletter; YES to doing a Profile for one's own area. (Start writing... Send your PROFILE to Joe M. Lewis, 750 Scotland St, Dunedin FL 33528... Joe's Editor of the new PROFILES Column).

Question 12, How to improve PS Column: We did right well here. One reader commented that he missed the accuracy of Bill Mauldin's computer.

Question 13, Number of freqs scanned: 8 to 50. (In average traffic, I've found 20 channels to be maximum for one scanner. Where you live has a lot to do with this- when I lived in Virginia Beach, before they went digital, I had 4 fixed-frequency monitors, 2 4-channel scanners, a 50-channel scanner and still missed things).

Question 14, Other Services monitored? We rounded up the whole world here.

Question 15, Portable scanner? YES to 5 out of seven: 2 Bearcat, 2 Realistic, 1 Regency.

Question 17, What % of the column should be devoted to: Updates, 20%; Full coverage of an agency or department, 32.14%; List freqs only, 32.85%; Editor comments, 15%.

Question 18, How often should we detail State Police/ Highway Patrol? Answers vary from 4 times a year to once every two years.

Question 19, If you know more about an area than what's been printed, would you assist this Editor? YES in all replies. (Please do!)

Question 21, Complaint dept. One suggestion covers realignment of our area of coverage. (Maryland, Deleware, District of Columbia and Northern VA would make an area to be covered by a Metropolitan Editor. The area is neither NE or SE.)

CONCLUSIONS? We run the gamut from old salts to brand new monitors. It's difficult to set a median interest level that covers everything, rural or metropolitan, and all stages in between. We have some members who have very narrow interests, others want to listen to everything.
RCMA IS NOT SO LARGE THAT THERE ARE A WHOLE FLOCK OF MEMBERS TO COVER YOUR AREA. IF YOU'RE IN A RURAL AREA, YOU'RE LIKELY TO BE THE ONLY PERSON WHO CAN PROVIDE INFORMATION FOR THAT AREA!!!

REQUESTS: Thomas A Baker, VA-099, 3832 E Ocean View Ave, Norfolk, VA 23518- oops, add APT 4 in that address, needs help with Tidewater VA TEN-Codes. Anyone who can help him in that department, please do so.

Steve Giovanis, GA-008, 4314 14th St, E.B. Saint Simons Is, GA 31522- would like to exchange frequency info and ten-codes with members in the Atlanta, GA, Jacksonville, FL areas. Steve also sends along this info: 154.935 (F3) is a Statewide Sheriff/State Patrol freq. 154.905 (F4) is used by Glynn Co PD and Brunswick PD for surveillance, tactical, special Communications, and events. Steve notes that these uses are additional to the GSP and Statewide uses of the channels.

EDITOR NEEDED: I'm finding less and less time to devote to the Newsletter. Because of my responsibilities in local Fire and Rescue organizations, I'm not able to continue as your Editor. Believe me, it's a lack of time involved- not a lack of interest.
*** IF YOU WOULD BE INTERESTED IN EDITING THIS COLUMN, Bill Mauldin, General Editor, 2268 NW 30th Rd, Boca Raton FL, 33431 is the person you should contact. Send Bill a sample of your abilities with typewriter/word processor.

Just one more note before we get down to things like frequencies and such: The State of Florida, like the rest of the world, is running out of frequencies. A study was just completed as to whether to go to 800 meg or to an ACSB 150 meg system for all State Agencies. No contracts have been signed yet. The 800 meg system used in the tests didn't perform as well as expected. More on this as it develops. If you hear anything about it, let us know.

FLORIDA TAMPA AND PINELLAS CO EMS from Joe M. Lewis, Profiles Editor
Hospitals on Med 3 (463.050) Bay Front, St Pete; St Anthony's, St Pete; Humana, St Pete; Metropolitan Gen, Seminole; Mease, Dunedin; Mease, Countryside.
Hospitals on Med 4 (463.075) Humana Northside, St Pete; Morton Plant, Clearwater; Harborside, St Pete.
Hospitals on Med 5 (463.100) Clearwater Comm; Palms of Pasadena; Harborside, StPete.
Hospitals on Med 6 (463.125) Suncoast, Largo; University Gen, Largo; Largo Med Cen.
Hospitals on Med 7 (463.150) All Tampa.

Other Medical Freqs in use in Tampa, Hillsborough CO, Pinellas Co area:
155.220 Hillsborough Co Ambulance Dispatch
155.325 Hospital Net
155.340 "HEAR" System (Ambulance-Hospital) (Can't say if this holds true all over the country, but in VA services certified for Basic Life Support use this system, the higher certified services -Advanced Life Support - such as Cardiac Technicians and Paramedics- use the COR UHF system-ED)
462.975 Pinellas Ambulance Dispatch
155.160 SAS Ambulance, North of Seminole
155.295 SAS Ambulance, South of Largo and Tarpon Volunteer Ambulance
462.950 Doctor's Paging and Mobile Phones, not identified.

Joe also sent us more on FL Division of Forestry. I'm having a copying machine problem with it..... have to locate one that zooms.

Back to the Fall Survey.... List the (12 primary) frequencies on your scanner.

WEST PALM BEACH, FL
1 - 154.695 FL Hwy Patrol
2 - 453.725 FHP Turnpike
3 - 453.625 FHP Turnpike
4 - 154.650 PB Sheriff, City
5 - 154.725 PB Sheriff, Central
6 - 154.845 PB Sheriff, North
7 - 154.785 PB Sheriff, East
8 - 463.125 MED 6
9 - 155.010 PB Police
10- 155.850 Riviera Police
11- 154.920 FHP
12- 154.875 PB Gardens Police

SAVANNAH, GA
1 - 154.190 Southside Fire
2 - 154.310 Savannah FD
3 - 173.485 Hunter AAF Fire
4 - 460.025 Savannah PD
5 - 460.200 " "
6 - 460.325 " "
7 - 460.400 " "
8 - 155.130 Chatham Co PD
9 - 154.740 " " "
10- 381.800 USCG SAR
11- 155.160 Chatham Co EMS
12- 462.950 Memorial Hosp Medstar Amb

BRUNSWICK, GA
1 - 159.210 Glynn Co PD
2 - 155.340 HEAR Statewide AMB-HOSP
3 - 154.385 Glynn Co FD
4 - 154.905 Sheriff Ch4, Statewide
5 - 155.490 Glynn Co, Narcotics
6 - 154.680 GA State Patrol, Base
7 - 154.800 GA State Patrol, Car-car
8 - 154.935 Sheriff, GSP Statewide
9 - 156.425 Marine Ch 68
10- 159.390 GA Div Forestry
11- 159.360 GA Div Forestry
12- 156.800 Marine Ch 16

GEORGETOWN, SC
1 - 147.375 Georgetown ARC
2 - 155.415 " City PD
3 - 155.490 Sheriffs Dept
4 - 156.800 Marine ch 16
5 - 153.170 WGTN, WAZX-FM
6 - 157.680 Alert Cable TV
7 - 461.025 Stalvey Repeater
8 - 48.14 Santee-Cooper Light
9 - 462.275 International Paper Co
10- 462.024 Winyah Repeater-Autopatch
11- 155.715 Civil Defense
12- 154.160 Georgetown VFD

BATH CO, VA
1 - S (Sensitive Fed Govt)
2 - S
3 - S
4 - S
5 - S
6 - 159.000 VA State Police, Base
7 - 154.935 " " " , Mobile
8 - 159.135 " " " , Base
9 - 154.665 " " " , Car-car
10- 155.460 " " " , Mobile
11- 39.54 Statewide Sheriffs,also State Police Mobiles
12- 39.40 Bath Co Sheriff

HAMPTON, VA
1 - 453.750 Hampton PD
2 - 453.900 " "
3 - 453.050 " "
4 - 46.06 " FD
5 - 155.550 " Sheriff
6 - S
7 - S
8 - 159.165 VA State Police
9 - 453.850 Hampton Roads Bridge-Tunnel
10- 155.805 Patrick Henry Airport Police
11- 159.435 VA Game Commission
12- S

ALEXANDRIA, VA
1 - 460.125 Fairfax Co PD
2 - 460.575 " " FD
3 - 460.600 " " "
4 - 460.625 " " "
5 - 453.975 " City PD
6 - 39.34 MD State Police
7 - 453.550 PD Mutual Aid
8 - 494.662 Prince Geo Co MD FD
9 - S
10- 495.087 Prince Geo Co MD PD
11- 159.135 VA State Police, Base
12- 155.460 " " " , Mobile

Have you been following all this anti-scanner tripe? Sort of makes your Old Editor sick, being a fan of Thomas Jefferson like we are. I sometimes wonder which is the greater threat- the government in Moscow, or the government in Washington. Those rascals are really out of control! We put money in and nothing comes out but laws which restrict the basic rights of the individual. That's pretty dumb - paying people to take your rights away from you. Maybe we ought to write them a letter or two.

LET'S HEAR FROM YOU

John

PUBLIC SAFETY—CALIFORNIA

P.O. Box 3962 Santa Fe Springs, California 90670-1962

Welcome to the March 1986 edition of RCMA - PUBLIC SAFETY CALIFORNIA

According to The Monitoring Times, SCAN Magazine will merge with Popular Communications. This would seem to explain Pop Comm's recent anti-RCMA editorial position. I personally like Pop Comm, instead of having to dig out my back issues of RCMA, I can just pick up the latest copy of Pop Comm.

Here it is by popular demand!!!
(truthfully, two people in Stanton)

Drum roll! Trumpets! Just when you thought it was safe to go rummaging in your back issues!!!

An Index for 1985!

In the interests of convenience single frequencies are included directly in the index. If anyone has an index of other years, please send it in! The format you used isn't important.

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The PUBLIC SAFETY CALIFORNIA INDEX - 1985

Jan.-Pasadena Tournament of Roses Parade Freqs.; Review of Regency HX1000; Space Shuttle Rebroadcast on 446.2750 MHZ; LA County Waterworks District 29 on 47.74 MHZ; CDF/Riverside FD; Sunnyvale DPS Fire Station Apparatus and Personnel Complement; Long Beach PD Beat Map and Freqs. with LB Fire-153.95 MHZ and CSULB 153.74 MHZ.

Feb.-Mono County Update; Lifeflight Helicopter; LA City & County "Air to Air" and "Air to Ground" Water Drop Freqs.-118.925 MHZ & 118.950 MHZ; NOAA WX Link Freqs.; Fox Scanner Directories; Ridgecrest PD is on CLEMARS (154.920 MHZ); CHP Radio codes and Freqs; Cerritos College Security-464.325 MHZ; KABC 26.39 MHZ; Beverly Hills PD and FD Freq.

shift; Misc. School, Business and Security Freqs.; Louisana Freq. Exchange Newsletter address; Scanner Beam II Review; Butte and Marin Counties; San Francisco PD Reorganization; Lockeed Fire at Burbank Airport-158.295 MHZ.

Mar.-RTD Subway Freqs.; 1985 Rose Parade "Ham" Freqs.; Vacaville area Freqs.; Misc. Bay area Freqs.; Lowband "Skip"; BC 250 Conversion; cordless phone Freqs. BC-210/SX-200 Signal Generator; CHP Control Link Freqs.; CA OES/CDF and Misc. Freqs.; Santa Barbara Area Freqs.

Apr.-Orange Co. Fire Unit Numbering; San Bernadino So Helicopter info; Oakland PD SES Unit info; Mammoth Lake Fire Freqs.;Misc. PD News; CHP Remote Sites;Pomona PD, Redondo Beach PD and Truckee Fire Freqs. and unit numbers; Beat Maps for Anaheim, Santa Ana and Fullerton Police;

May.-No column.

Jun.-Frequencies and unit info for Mammoth Lakes Fire, Goodhew Ambulance, Rancho Santa Fe Fire and surrounding districts, Mono County Fire, Inyo County, Inglewood PD, CDF-Medocino, San Diego PD, CHP, LA City Fire and City-wide. Unit info for Pomona PD, Somona County and San Francisco.

Jul.-List of freqencies monitored during 1984 Olympics; Orange County Harbor Freqs; Orange County Fire Battalion 6 units.

Aug-Mono county; Long valley contingency planning including Inyo and Toiyabe Forests' proposed radio system for emergency incidents; Eastern Sierra Radio Systems covering many systems; City of Newport Beach beat map and freqs.; Orange County Fire freqs. and station map; San Diego Sheriff's freqs. Heartland Fire and misc. San Diego Freqs.; articles on Orange County S.O.'s new helicopters, Riverside City Fire use of civilian, San Bernadino S.O. request for and new radio system (includes freqs. for the present system) and USFS/NASA joins forces to find out what is killing brush in the forest.

Sept.-List of suggested freqs. to listen to during large forest fires; San Bernadino Sheriff's Dept.-Aviation Division, Unit I.D. and freqs.; Riverside County Law Enforcement Unit I.D.'s and freqs.; Palm Springs PD Unit I.D.'s; Angel Island State Park (44.71 MHZ) overview of Park operations; CHP Southern Division Map; Northern San Diego County freqs.; Burbank Water Dept. (451.050 MHZ); misc. LA freqs.

Oct.-No column.

Nov.-October and November columns combined; Comments on SB 1431, Icom R-7000, Yaesu FRG-9600 and support software; Riverside County Volunteer Fire Station assignments; "Wheeler Fire" active freqs.; Hazardous Material Monitoring; LA City Animal Control, Vernon and San Fernando PD Freqs.; Is 153.995 MHZ a mutual aid freq. for Alhambra, San Marino, Monterey Park, South Pasadena and San Gabriel FDs'; Redding Police, Shasta Sheriff, Fish & Game, Paramedics; Orange County Radio Code Book Orderng Info; RTD Radio System Profile; article on CHP Commnications equipment in the new helicopters; CHP Remote Sites; Misc. Orange County

Dec.-Articles on Riverside PD's Helicopter, Suburban Water Co.'s "Radio Watch" program (freq. 48.340), Mission Community Hospital joins "Med Air" program, Space Shuttle "Ham in Space", Mexico City Earthquake and Amateur Radio, Pacifica Public Safety (and freqs), image freqs. for CHP 72 MHZ, SB 1431 update and REACT. Frequencies and unit assignments for LA County Fire Dept.,Misc. Law Enforcement Codes.

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GOVERNMENT RADIO SYSTEMS
CALIFORNIA THIRD EDITION

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Accurate beyond belief

From Craig (CA-VE-011)

For all you guys (and gals! ed.) with mx-7000's the LA Fire Dept. rebroadcasts on 959.9MHZ all F7 (33.70) and F8 (33.82) communications. It is usually stuck in constant carrier. It comes from Briarcrest Peak at Mulholland Dr. and Laurel Cyn.

From Diane (CA-LA-133)

Diane read in the newspaper that on Jan. 1,1986 public service helicopters were moving from 122.75 MHZ to another freq. Even before the 1st, Diane noticed that they seemed to have disappeared! She would like to know what frequency they switched to. Try listening to 123.025 and 123.050 MHz AM (Editor).

From Geoff Wilford (CA-KE-023)

I just wanted to drop another line to thank the readers/contributors for breaking the "barrier" of (silence concerning ed.)units, locations, and numbers of the L.A.F.D. Back when I first started monitoring (mid 70's) they didn't want to tell me what O.C.D. was! Their abbreviation for "dispatch". The info sure has come along way.

A couple of clarifications though, a task force consists of a two-piece engine company (really worth 2 engines) and a truck. A light task force consists of 1 engine and 1 truck.

All of the reports that I have seen (I work for a F.D.) indicate a "B" response is commercial/industrial and consist of 2 task forces, and addiional engine co. and a Battalion Chief. The "A" response is for residential. Specifically they staff 53 singles (Eng. Co.) 47 T.F., 48 RA's, 5 boats, 6 helicopters, and 9 CFR units. (must be nice)

For a contribution, I will be sending in an article about "our" new communications center at a cost in the 2 figure millions. It houses, and will house, the kern county S.O., Fire, E-911 operations, the

E.O.C., the main radio control point of the San Joaquin Valley, and the radio shops. (Over 600 microwave circuits,23 county agencies, 6 state agencies, 8 federal, 12 incorporated cities, and many more.) When you see the total C.A.D. system, vehicle tracking system, the tricked out E-911 and the consoles, I think you'll agree (an d they say) that it will be the most advanced in the U.S. for about a year - until someone does better. I'm waiting for them to finish installation.

From Charles (CA-SB-057)

Changes for San Bernadino County Forestry and Fire Warden Dept.

(CSA-38)

Station 11 is now part of Wrightwood Fire Protection Dist. The station number may be reassigned to the next new station. Recon 10 is now Utility 10 (Recon designates a 4 wheel drive vehicle). Station 23 (Grand Terrace) has Engine 23 and Squad 23 assigned. OES-163 is housed at 23s when not needed elsewhere and is covered by PCF Co. 23 while there. Engine 23 and Squad 23 assigned. OES-161 is assigned to the Crest Forest Fire Protection Dist. (Crestline-Twin Peaks area) and is housed at station 29 when not needed elsewhere. Crest Forest FPD is an independent district that has contracted with CDF for dispatching services. Equipment and stations use the county numbering plan Sta.#24-30. Overhead personnel use the 3200 series radio designator.

As of Jan. 1,1986 San Bernadino Ranger Unit will use the 3500 series radio designators, Riverside will use the 3100 and 3200 series. This is due to the closing of region 5 and the consolidation of CDF region offices throughout the state.

CDF is implementing a new communicaton system in phases throughout the state. These changes will result in the renaming of some freqs. and the utilizing of other presently licensed freqs in areas they aren't presently used. Re; using theair nets during nightime for car to car use etc. I have a copy of the phase schedule and plans and will forward this to the editor at a later date. So far all radio usage will stay in the VHF-HI band. Doesn't look like 800 MHZ for CDF, yet.

The San Bernadino County ranger unit is about finished with a project to replace the 4 channel radios with 32 channel radios that will accomodate the new radio plan mentioned above. Most of the radios in state engines are manufactured by Midland whereas the radios on the county owned units are Motorolas. Squad 6 (Highland) will be manned by full time paramedics as of July 1, 1986. S-6's, radio is a Motorola Syncor 100 32 channel with all CDF, OES White, SBCo Fire, SBNF,ANF,CNF,BLM and Hear/MedNet Freqs. S-6 has communications ability with almost any fire unit in So Cal. Now if there was only a need.....

From Don (CA-SM-032)

If you are a bay area resident, live in or around the City of South San Francisco, or are visiting the area, you can listen to the following public safety frequencies.

Police Channel 1 Primary (R) 488.4625
Police Ch 2 Tac-1 (R) 488.8625
Fire Ch-1 Primary (S) 154.010
LG Public Works (S) 45.16

From ED Von Nordeck (CA-RI-013)

Reference to the January RCMA with the note from Don, Regarding CDF stations and assignments. Station 11, Pinon Hills does not show up on the listing, as it has been at least 3 years that this station was abolished. When he makes reference to Engine R-1, this is an engine. Coutny/CDF has reserve engines numbered R-1 etc. and they are assigned as needed for spare engines. As of today, Jan. 6, R-1is t station 53, R-4 is at station 37.

As of January 1, 1986, CDF Region 6, became Region 3 and all equipment now starts with 3000, in place of 6000. Engine 6584 now becomes 3584 etc. So far it's not known to me which numbers the San Luis Obispo engines have become, since SLO is now a part of the new Region 3. Region 5 is no more, having been split up between regions 1,3, and 4. Understand that SLO will remain on freq. 151.325.

From Mike (ID-001)

San Diego Police Dept is considering 119 recommendations made to them by an 85 member task force. The task force consisted of officers from the ranks. The department has accepted 102 of the recommendations and is considering one other, and rejected 16.

Information on all but 5 are being released. The 5 are withheld due to security considerations. The task force came about due to an officer's death by shooting, and the fact that San Diego leads the nation in officer-mortality rate. Some of the recommendations that have already been put into effect include two-officer patrol cars at night and 24-hour in high crime areas. Bullet proof vests have been mandated for all patrol officers.

Another recommendation was a 10-hour/4 day work week, which at ths time is still being studied. One of the most visible changes will be the return of the black and white patrol car. Studies have shown that black and white units are involved in less traffic accidents. It is also hoped that th higher visibility will decrease crime. The most laborous decision will be whether to switch to semi-automatic weapons, replacing the traditional revolver. While the department initially rejected a plan to give officers the option to carry semi-automatic weapons, the announcement that L.A.P.D. is conducting a study in this area has left the option open at least until their study is completed. The above is only a few of the various changes being considered.

Congress is fearful of recent disclosures of the ease of monitoring electronic communications that to the uninformed public was considered to be "secret". While RCMA members have long been aware of the capabilities of monitoring equipment and their users, a recent arrest of drug smugglers in possession of scanners and frequency lists has congressmen alarmed.

Among the paraphernalia seized was a 62 page list of frequencies used by local state and federal agencies, from the FBI to the DEA. Of particular concern was the inclusion of Secret Service Presidential Protection Frequencies. The congressmen fear that such information could be used by criminals or terrorists to move against the president and other memebers of the executive branch. In the wake of pending federal anti-scanning legislation, this hysteria is the last thing we need! I urge members to make a strong effort to let their legislators know of the many and vital uses of scanning and other monitoring equipment. ie: inter-agency coordination, use by volunteer firemen, improved emergency response, monitoring of NOAA weather alerts, disaster monitoring-what areas to avoid, re-routing of traffic, calls for assistance, crime watch, police calls for citizen assistance in locating wanted criminals, etc.

Just think back upon the many legitimate and unique uses in your past and make them known. Big business (the cellular phone industry) is out to protect their profits at the cost of our rights.

Editor's note: This issue was prepared by our new PS-CA Editor trainee, CARY (CT-032). An EXCELLENT job, Cary! Thanks, ERIC (CA-LA-045) & MIKE (ID-001). See you next time.

PUBLIC SAFETY WEST

NO COLUMN THIS MONTH

RAILROADS

Gary L. Sturm and
Bill Farmer, Editors

Send information about railroad frequencies and their uses, railroad radio system details, and related questions to:

Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91360

Again this month, we have a shortage of contributions from the U.S. We hope our U.S. members will resume writing to us, so that our International and Canadian column editors won't think we're trying to invade their territories!

We received a total of three returns from the Fall 1985 Reader Survey. All three respondents answered "yes" to the question, "If you feel you know more about an agency/company/department than what has been printed lately, would you be willing to offer assistance to this editor if he were to write an article on the subject?" We are always happy to write articles based on reader-supplied information, so all of you are hereby requested to send whatever data you can on the railroad you know most about.

The following article by Sid is a perfect example of the kind of contribution we need for this column. Sid took a few minutes to tell us what each channel he monitors is used for, by what railroad, and where. Not hard to do, and it's much appreciated by our readers.

VANCOUVER, BRITISH COLUMBIA

by SID ELLIOTT (CANA-109)

Just received my January issue of RCMA and noted you listed some of the frequencies for the RRs here. I am a railfan and make use of the frequencies for outings with my camera. Here is some additional information.

British Columbia Railway 159.570 (road channel 1) is the most important to listen to over the whole system. At 0700, 1230, and 2000 hours daily a train lineup is given for the Squamish Subdivision which covers North Vancouver to Lillooet. Times vary for lineups on other subdivisions but still this channel. Also as a train passes certain mileposts he radios in his time to the dispatcher. If you are in the area and hear this, you know a train is nearby.

British Columbia Hydro Railway 160.515 is for Maintenance of Way. A train lineup used to be given on this frequency at 0800 and 1230 daily to sectionmen. I have not heard it lately so cannot confirm if still given or new hours now.

Canadian National (CNR) 161.025 is used by all trains west of Port Mann Yard in Surrey, BC. All trains use this to call the Fraser River Bridge and the Burlington Northern operator (CJN 253) as the track from New Westminster to Vancouver that all CN trains run on is owned by Burlington Northern.

CNR 160.365: As a westbound train, still on BN track, gets near Burnaby it changes to this frequency to call the 2nd Narrows Bridge operator and Lynn Creek operator in North Vancouver. In Burnaby it goes onto its own track and through a mile-long tunnel under Burnaby and at the west portal of the tunnel onto the 2nd Narrows Bridge which crosses Vancouver Harbour and into Lynn Creek Yard. All trains that work in North Vancouver and have interchange with BC Rail use this frequency. All eastbound trains stay on this from North Vancouver until they come out of the east end of the tunnel and onto BN track; then they switch to 161.025.

CNR 160.935: As a westbound train, still on BN track, gets near Burnaby it changes to this frequency to call the yardmaster in Vancouver. Once off the BN track onto CN track, trains stay on this frequency. Eastbound out of Vancouver yard they go to 161.025.

CNR switch engines use 160.305, 160.485/161.295, 161.295/160.485, 161.385.

CNR 160.215 is used on the mainline from Port Mann yard to Boston Bar (the Yale Subdivision) by sectionmen, police, and others. A lineup is heard at 0730 and 1230 daily for all trains on the mainline. I find this an important one to keep in the scanner when out on the mainline, however it's some kind of PBX and sometimes the transmitter is on for long periods of time which stops the scanner from searching other channels.

CNR 473.250 carmen who check inbound and outbound trains at Port Mann Yard. Note this could be a harmonic, however it still comes in best on my radio.

Vancouver Wharves owns about six engines in North Vancouver and receives some unit trains of bulk commodities from CN and BC Rail. Frequencies are 464.375 and 464.775. This is a fair size operation seven days a week.

Esquimalt & Nanaimo 161.115 (road channel): At 0800 daily a lineup of all trains on Vancouver Island is given. 160.035 seems to repeat 161.115, also have heard Maintenance of Way on this.

Canadian Forest Products 160.650 have not heard it but is used as Marine Channel 1.

CP Rail 160.425 have never heard anything.

CP Rail 160.725 is used by all trains west of Port Coquitlam Yard to Vancouver. It is known as "transfer channel." Also used by trains to New Westminster.

CP Rail 160.635 switch engines along the waterfront in Vancouver, also sometimes transfer trains from Coquitlam Yard to Vancouver when 160.725 is being used by another transfer train.

CP Rail 160.755 Coquitlam Yard carmen.

Vancouver SkyTrain rapid transit system [described in last month's Railroads column -ed.] is now [December] in operation free to public twice a week until January when it goes into daily operation. 410.2875 is the main channel. 410.0625 seems to repeat 410.2875 and 410.4875 (channel 3, the yard channel) and problems related to each train. [Ed. Note: this is a revision to the uses given for each channel in last month's column.] At present they are running four-car trains. There have been some problems with the general public in the form of drunk youths and vandals on some of the trains. Transit security has had to have its full force out on Friday and Saturday nights to deal with the problems. They use 157.650 which is the regular Metro Bus transit channel.

[Thanks to Sid for the informative brochure on SkyTrain he sent and for a truly superb contribution! It's everyday stuff to him, but makes a fascinating report for the rest of us. And it'll be very helpful to all of us who are planning to visit the World's Fair and STEAMEXPO this summer. FCC and AAR lists are useful, but as we've said before, there's nothing like a local, on-the-spot reporter to tell us what's <u>really</u> happening! How about taking a half hour and dropping us a note describing what is heard on each of the railroad channels you monitor regularly? -Bill]

SAN DIEGO (CALIF.) TROLLEY

by ED SHERMAN (CA-SD-050)

160.665/160.935	Ch 1 Trolley operations
160.530	Ch 2 Freight operations (San Diego & Imperial Valley)
161.565	Ch 3 Car-to-car

1-8	Trains (run numbers)
100 series	Administrators
200 series	Transportation
300 series	Security
400 series	Maintenance
500 series	Ticket Inspectors

[Thanks, Ed, this is the best rundown on the Trolley we've seen.]

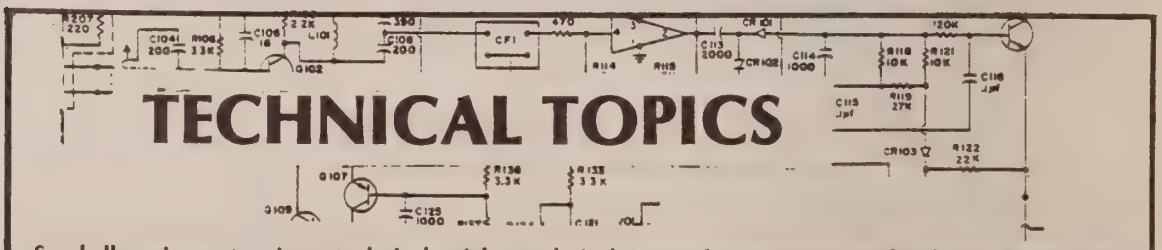
AUSTRALIAN NATIONAL RAILWAYS

by GARY L. STURM (IN-045)

From the land of kangaroos and summer when we have winter is some new data on the ANR in the South Australia area and on their freight-only operations on the island of Tasmania. Following is the complete listing for their system. For those traveling to Australia, we hope this will be of continued interest and for curiosity seekers, it will really be a treat. I am also working on some other railroads, including a company-owned iron-mining town and railroad, which I hope to have ready soon for this column. Here is the listing for Australian National Railways:

157.480	Adelaide, S. A.	Parcel Delivery Trucks
162.310	Adelaide, S. A.	Security Services
162.640	Mainland	Per Way Maintenance
166.630/170.940	Mt. Gambier-Millicent,S.A.	Train Control to train
167.530	Port Augusta, S. A.	Mechanical & Electrical Service Vehicles
168.370	Parkeston, Western Aust.	Yard Shunting (switching)
168.520	Mainland (country services)	Yard Shunting
168.520	Tasmania	Yard shunting and locomotive to brakevan
168.580	Mainland	Train control to train
168.640	Mainland	Locomotive to brakevan
168.700	Tasmania	Train Control to train
168.910	Tarcoola-Alice Springs	Train Control to train
418.175	Adelaide, S. A.	Tank Car Maintenance
418.475	Adelaide, S. A.	Rescue & Emergency Services
450.200	Adelaide, S. A.	Security Services
471.300	Adelaide, S. A.	Yard Shunting
471.400	Adelaide, S. A.	Yard Shunting
471.425	Adelaide, S. A.	Yard Shunting
471.500	Adelaide, S. A.	Yard Shunting
471.575	Adelaide, S. A.	Yard Shunting
471.650	Adelaide, S. A.	Yard Shunting
471.700	Adelaide, S. A.	Yard Shunting
471.725	Adelaide, S. A.	Yard Shunting
471.775	Adelaide, S. A.	Yard Shunting
471.850	Adelaide, S. A.	Yard Shunting

If any RCMA readers have any interest in continued research into foreign country railroad radio frequency data, please let me know. I will try to do my best in gathering the data. If anyone knows the name of the person in charge of Signals and Communications for the South African Railways, please send that address to me at my new address: Gary L. Sturm, RR Co-editor, 4511 Columbus Ave. Apt. I-61, Anderson, IN 46014. A new job and a brand new bride are the big happenings here in my family. I hope to be of service to you all and hope to hear from some of you in the future concerning exotic railroad frequencies.



Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions to:

Stephen A. Kayworth, 21551 Kapok Circle, Boca Raton, FL 33433

NOTES FROM THE MAIL BAG

I hope the month of March is begining to show some signs of the end of winter for those of you who live in the colder parts of the country. For us here in Florida, the weather is very moderate at this time of year, but in a few short months we will be in the middle of our long hot summer. That's when Mother Nature gets even with us for the low heating bills we have during the winter.

F.M. TWO-WAY RADIO

5 Watt VHF hand helds from
$250, UHF from $300.
30 Watt Mobiles from $400.
Repeaters from $1300.
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PAID ADVERTISING

My mail bag is getting full again, and I would like to take some time this month to answer some of the letters in this column and add any comments I might have. The first note comes from the RCMA Chicago chapter newsletter for January 1986. Ed (IL-004) writes:

> FCC Discourages Field Programmable Tranceivers: The FCC has asked tranceiver manufacturers to police themselves on the manufacture of field, as opposed to workbench, programmable units . Too many people are using them on channels they are not licensed for. This includes the clip-the-jumper-wire variety....

This news is interesting in that it gives an indication of what level state-of-the-art two-way radio has reached. In effect, it has finally caught up with the programmable scanner. I remember that the first programmable scanner I saw had a bunch of switches on the front of it which you set in certain combinations for each frequency you wanted to monitor. Once the switches were set, you then hit an enter button and that frequency was then loaded into memory. It was a lot like booting-up and old Altos 8080 mini-computer.

Well, scanners have come a long way since then (early 1970's I think) but so have two-way radios. It used to be the case that a two-way radio operated on only one or two channels and that was it. A radio that could operate on 4 or more channels was considered to be pretty sophisticated. If the operating frequency of the radio had to be changed, new crystals for both the transmitter and the receiver had to be ordered and installed. The radio then had to be retuned to the new frequency. This whole process could easily take up to a month or longer to complete. Although many two-way radios still use crystals, there are now many on the market that can be programmed as easily as we now program a scanner. These radios are microprocessor controlled and use synthesizers, rather than crystals, to generate their operating frequencies.

Those radios that are field programmable are called such because of the ease with which their frequency can be changed. Not only can their frequency be change easily, but their PL, or private line, tone can also be programmed easily. This makes it very easy for a user, who is not happy with the frequency they are assigned to, to move to some other channel. Unfortunately, this type of activity really causes more trouble in the long run because it defeats any type of frequency coordinating effort that the FCC might be attempting to make. This type of operation is known as "Bootlegging."

The type of radio that is refered to as "workbench programmable" can have its frequency and PL changed just as easily as the field programmable type, but it is something that is better done by an experience technician. Usually, these radios require changes to be made inside the case as opposed to merely entering frequencies on a keypad for example. They also may require some special piece of equipment in order to change the operating frequency and PL tone. Keeping the responsiblity for changing frequencies in the hands of licensed technicians is one possible way to keep the business bands from degenerating into a wild free-for-all, or so I would imagine the reasoning of the FCC to be.

As always, progress has its own set of problems, but isn't it nice to know that we, with our nice programmable scanners, were on the leading edge of technology for a while?

A good question was recently submitted by Bill (CANA-122) concerning antennas, pre-amps and frequency vs. wavelength. He writes:

> ...is it possible to damage a receiver by overloading the antenna input? I have been using a 35 ft long wire with a Radio Shack PR0-2003 scanner and a Radio Shack SW-60 portable when monitoring the 30 to 50 MHz band. I was thinking of adding a pre-amp but don't want to do so if there is any chance of causing damage to the receivers. Also...could you provide the formula for converting frequencies to wavelength and vice versa?

The answer to the first part of this question is yes. It is possible to damage a receiver's input, or front-end, by overloading it with too much signal, but it is not very likely to happen.

First of all, many receivers are protected from signal overload by two diodes placed in parallel and in opposite polarity to each other. They are then connected from the antenna input to ground (see figure 1). Diodes will not conduct in the reverse direction and will only conduct in the forward direction if the voltage is above .3 to .7 volts depending on whether the diode is made of germanium or silicone. Since the signals coming in the antenna line are normally be well below this level, the diodes will have no effect on the incoming signal. If, however, the signal level at the antenna input should reach the conduction point of the diodes (.3 to .7 volts), the diodes will start to conduct, one on positive peaks and the other on negative peals, and will continue to conduct until the the signal level again drops to a level which is below the diode's conduction point. When the diodes do conduct, they channel the excess signal to ground rather than into the receiver's front-end. In this way, strong signals are prevented from overdriving a front-end transistor and causing it to self-destruct.

I cannot say whether the two Radio Shack receivers mentioned above have this type of protection in them, but even if they didn't, it would still take an extremely strong signal to cause damage to the receiver. It is also possible that some of the pre-amps on the market have diode protection on their inputs, so it would be virtually impossible to overdrive a receiver to the point of destruction.

While it may be a very difficult task to damage a receiver by overloading the front-end, there are, none-the-less, other things to consider before using a pre-amp. Even though a receiver may be protected from transistor-damaging types of overload, it is still possible to overload a receiver to the point of causing other problems. When too much signal is present in the front-end of a receiver (ie, more signal than the receiver was designed to handle), the circuitry is driven into a state of non-linearity. What this means is that the circuitry can no longer perform as it was designed. A non-linear circuit will start to produce harmonics of the signals being fed into it. These harmonics will, in turn, mix with each other and produce still more signals. The net result of all these harmonics and mixing products being present in the front end of the receiver is that dreaded devil called **INTERMOD!**

I receive many letters from readers who state that their scanners work great on the short telescoping whips often provided with the units, but when the same scanner is connected to an outside antenna and/or used with a pre-amp, intermod is often the result. This is usually due to the fact that an outside antenna allows stronger signal to enter the front-end of the receiver, and a pre-amp makes them even stronger. The receiver is driven into non-linearity and intermod is the result. I'm not saying that outside antennas and pre-amps shouldn't be used, but an increase in intermod is often the consequence.

One way to reduce, and in some cases, eliminate intermod, is to use a filter in the antenna feedline. A good filter tends to keep a lot of the unwanted signals from ever reaching the receiver, thus reducing the chance for intermod to happen. A filter can be very helpful when using just an outside antenna and may be necessary when using a pre-amp, especially in metropolitan areas. Figure 2 shows the proper placement of filters and pre-amps in antenna lines. Always put the filter in the line ahead of any preamp.

I recenty received a paper written by Grove Enterprises and Monitoring Times called "What Kind Of Antenna Do I Need For Shortwave?". In it, the writers make a comment about pre-amps and pre-selectors or filters. The following quote is from that paper:

> PREAMPLIFIERS: The addition of an external pre-amplifier will...raise both signal and noise levels and will, in most receivers, result in overload conditions which may produce intermodulation and image interference, dynamic compression with its attendant decrease in sensitivity, and may, in some instances, actually destroy delicate RF amplifier transistors.

A preamplifier may, on the other hand, be used with an unusually short antenna when signal strengths are uniformly low.

PRE-SELECTORS: Passive (unamplified) pre-selectors are tunable to specific frequencies, attenuating the rest of the spectrum. They are useful for reducing or eliminating strong signal interference from intermod and images.

In summary, if you do use a pre-amp, you probably won't damage your receiver, but you should expect some sort of increase in intermod. To combat the intermod problem, it would be wise to consider the use of a filter or pre-selector when using a pre-amp or outside antenna. For more information on pre-amps and filters, see the August and September issues of the RCMA Newletter "Technical Topics" column.

The paper I quoted from above may be of interest to many of you and copies are available from Grove Entrprises. Available titles are: "What Kind Of Antenna Do I Need For Shortwave," "Choosing A Shortwave Receiver," and "Antennas For Scanners." Send your requests to Grove Enterprises, PO Box 98A, Brasstown, NC 28902 You must include an SASE. Foreign requests should send IRC's in the amount of $1.50 USD for air or $.50 for surface mail.

The second part of Bill's question concerns the conversion of frequency to wavelenth and vice versa. The basic unit of frequency is the Hertz (abbreviated Hz). The number of times an alternating current goes through its complete cycle in one second is its frequecy. In the old days, the Hertz was called a cycle, which was more descriptive of what was going on, but in the 1960's, someone thought that we should start using the international unit for frequency - the Hertz - and it caught on. Now you very rarely hear the term cycles used.

The unit of wavelength is the meter. You may have heard the term used before when speaking about some of the Ham bands. One of the most common ones in use today is 2 meters. Wavelenth is acutually a measure of how far a wave travels through space in one second. Radio waves travel at 300,000,000 meters a second (speed of light); therefore, a frequency of one Hz has a wavelength of 300,000,000 meters. The formulas to use to do these conversions vary depending on whether you are working with frequency in KiloHertz or MegaHertz. For use with KHz the formulas are:

$$F(KHz) = \frac{300,000}{\lambda} \quad \text{OR} \quad \lambda = \frac{300,000}{F(KHz)}$$

For use with MHz the formulas are:

$$F(MHz) = \frac{300}{\lambda} \quad \text{OR} \quad \lambda = \frac{300}{F(MHz)}$$

F = Frequency in KHz or MHz
λ = symbol for wavelenth

As an example, if we take a frequency of 146.500 MHz and plug it into the formula for wavelength, we get 300/146.500 = 2.05 meters, which happens to be the middle of the 2 meter Ham band. Conversely, if you were told to listen on the 19 meter band for a certain shortwave station you could find the approximate frequency by plugging 19 meters into the frequency formula: 300/19 = 15.79 MHz. Just remember that if you divide into 300,000 you are working with KHz, and if you divide into 300, you are working with MHz.

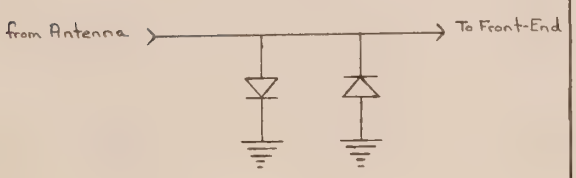


figure 1

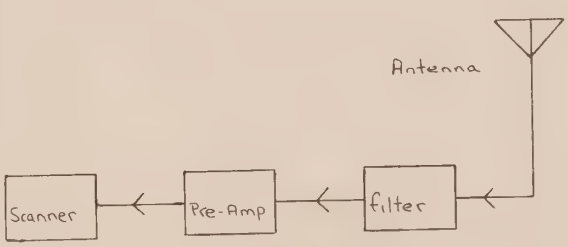


figure 2

I want to take this opportunity to welcome Jim (GA-058) to the RCMA Newsletter staff. Jim will be taking over the job of reviewing new products. This is an area that I know is of great interest to all of us since it is often on the basis of what others say about a product that motivates us, one way or the other, to spend, or not to spend, our hard earned dollars on new equipment. I hope you will be as faithful with Jim and you have been with me in sending in your reports and impressions on new equipment. I applaude you, the members, for the good work you have been doing in this area. Please keep it up so that we may all stay well informed as to the new products that are available to us in ever increasing numbers.

My thanks go to Ed and Bill for for their input this month. I hope the questions and the answers have been a help to all.

'til next time
Steve

VHF MARINE

Send information, articles, frequencies and their use, and questions that relate to private, commerical, and Coast Guard VHF maritime and inland waterways radio communications to:

Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504

Hello and welcome to your March 1986 VHF Marine Column.

Since their is no reader input to put in this column I will give you a report on the Fifth Coast Guard District.

The following is a list of all the groups in the District and their radio systems.

Coast Guard Units	CB Equipped	VHF-FM Equipped	HF-1.6-30 Mhz. Equipped
Group Baltimore,Md.	no	yes	yes
Station Stillpond,Md.	yes	yes	no
Station Annapolis,Md.	yes	yes	no
Station Taylors Island,Md.	yes	yes	no
Station Curtis Bay,Md.	yes	yes	no
Station Dahlgren,Va.	yes	yes	no
Station St.Inigoes,Md.	yes	yes	no
Light Sta.Thomas Point Shoals,Md.	no	yes	no
Light Station Cove Point,Md.	no	yes	no
Group Eastern Shore,Va. (Chincoteague)	yes	yes	yes
Station Ocean City,Md.	yes	yes	no
Station Parramore Beach,Va.	yes	yes	no
Aids to Navigation Team Crisfield,Md.	yes	yes	no
Group Hamptons Roads,Va. Portsmouth,Va.	yes	yes	yes
Station Portsmouth,Va.	yes	yes	no
Station Little Creek(Norfolk),Va.	yes	yes	no
Station Cape Charles,Va.	yes	yes	no
Station Milford Haven,Va.	yes	yes	no
Light Station Cape Henry,Va.	no	yes	no
Group Cape Hatteras,N.C.	yes	yes	yes
Station Oregon Inlet,N.C.	yes	yes	yes
Station Hatteras Inlet,N.C.	yes	yes	no
Station Ocracoke,N.C.	yes	yes	yes
Station Coinjock,N.C.	yes	yes	no
Group Fort Macon,N.C.	yes	yes	yes
Station Cape Lookout,N.C.	yes	yes	no
Station Swansboro,N.C.	yes	yes	no
Station Oak Island,N.C.	yes	yes	yes
Station Hobucken,N.C.	yes	yes	no
Station Wrightsville Beach,N.C.	yes	yes	no
District Communications Center Portsmouth,Va.	no	yes	no

Communications Station Portsmouth,Va.	no	no	yes
Reserve Training Center Yorktown,Va.	no	yes	no
Marine Safety Office Wilmington,N.C.	no	yes	no
Marine Safety Office Hampton Roads,Va.	no	yes	no
Marine Safety Office Baltimore,Md.	no	yes	no
Loran "C" Station Carolina Beach,N.C.	no	yes	no
Air Station Elizabeth City,N.C.	yes	yes	yes
Marine Safety Detachment Morehead City,N.C.	no	yes	no
Marine Safety Detachment Cove Point,Md.	no	yes	no

COAST GUARD TIMES AND FREQUENCIES OF BROADCASTS:

Baltimore	Channel 22	0130,1205 GMT
Eastern Shore	Channel 22	0200,1145 GMT
	2670 khz.	0233,1403 GMT
Hampton Roads	Channel 22	0230,1120 GMT
	2670 khz.	0203,1333 GMT
Cape Hatteras	Channel 22	0100,1055 GMT
	2670 khz.	0133,1303 GMT
Fort Macon	Channel 22	0130,1030 GMT
	2670 khz.	0103,1233 GMT
Portsmouth Com/Sta.	448 khz.	0120,1620 GMT
	4394.8,6523.3,8762.2 khz.	0400,0530,1000 GMT
	6523.2,8762.2,13145.4 khz.	1130,1600,2200 GMT
		2300 GMT
	8762.2,13145.4,17291.4 khz.	1730 GMT

National Weather Service Broadcasts:

Washington,DC.	KHB-36	162.550 Mhz.
Baltimore,Md.	KEC-83	162.400 Mhz.
Salisbury(Eden),Md.	KEC-92	162.400 Mhz.
Norfolk,Va.	KHB-37	162.550 Mhz.
New Bern,N.C.	KEC-84	162.400 Mhz.
Buxton(Hatteras),N.C.	KIG-77	162.550 Mhz.
Wilmington,N.C.	KHB-31	162.550 Mhz.

SAR COMMUNICATIONS FREQUENCY PLAN:

A) On-Scene Channel

PRIMARY

HF - 3023.5 OR 5680 Khz. AME
VHF-AM - 121.5 Mhz. (Aircraft)
VHF-FM - 156.3 Mhz. (Ch.6)

SECONDARY

HF - 2182 Khz.AME,2702(2703.4),2670(2671.4),2675(2676.4) Khz.
VHF-AM - 121.5 Mhz. (Aircraft)
VHF-FM - 157.1 Mhz. (Ch.22)

B) Shore Control Channel

PRIMARY	SECONDARY
2703.4(2702) Khz.	2671.4(2670),5321.4(5320)
5680 Khz.AME	2676.4(2675) Khz.SSB

C) Air-Surface Homing

PRIMARY	ALTERNATE
522 Khz.	410 Khz.

D) Surface-Surface Homing

PRIMARY	ALTERNATE
410 Khz.	466 Khz.

COMMONLY USED FREQUENCIES ——————→

2183.4 (2182) Khz.	International Calling & Distress
2671.4 (2670)	CG Common & Non-Govt Liaison
2676.4 (2675)	Fifth District SSB (Secondary)
2703.4 (2702)	Fifth District SSB (Primary)
2717.4 (2716)	Navy Harbor Control
3024.9 (3023.5)	International On-Scene SAR Air & Surface
4420.8 (4419.4)	LANTAREA COMMSYS Ship/Shore SSB
5321.5 (5320)	Fifth District (Secondary) (Daytime Only)
5423.9 (5422.5)	Fifth District Emergency Net Group Commanders-Communications Stations
5681.4 (5680)	International HF On-Scene Air & Surface
6523 (6521.9)	LANTAREA COMMSYS SHIP/Shore SSB
121.5 Mhz.	International Aeronautical Emergency
123.1	International Aeronautical ON-Scene
138.78	Joint SAR On-Scene (No Aircraft)
156.3 (Ch.6)	Intership Safety
156.525 (Ch.10)	Intership Safety
156.6 (Ch.12)	Port Operations
156.650 (Ch.13)	Bridge to Bridge - Intership
156.700 (Ch.14)	Port Operations (Second Choice)
156.800 (Ch.16)	National distress, safety and calling
157.05 (Ch.21)	MSO Baltimore Working Channel
157.075 (Ch.81)	MSO Hampton Roads Working Channel Group Fort Macon Working Channel Group Baltimore Working Channel
157.100 (Ch.22)	Liason Channel between Govt & Non-Govt Ships
157.150 (Ch.23)	Group Eastern Shore Working Channel Group Cape Hatteras Working Channel
157.175 (Ch.83)	Group Hampton Roads Working Channel
243.000	International UHF-AM Survival Craft Frequency U.S.Military common emergency channel
277.800	Navy Fleet UHF Common
282.800	Joint/Combined SAR On-Scene Frequency
381.800	CG Common UHF (Primary)
383.900	CG Common UHF (Secondary)

I hope that this column brought you some information for you to use in scanning the Fifth Coast District.

I need your support so please send any information that you have.

RCMA NEW MEMBERS LIST

AZ 069 - JERRY DUNHAM;P.O. BOX 18476;FOUNTAIN HILLS;AZ;85268
AZ 070 - JOHN NEISH;812 E 8TH ST;CASA GRANDE;AZ;85222
AZ 071 - J.M. MAC NEUR;3627 E WELDON;PHONIX;AZ;85018
CALA640 - NOBORU SAKAGUCHI;4918 7TH AVE;LOS ANGELES;CA;90043
CALA641 - DAVID ARMSTRONG;22639 NADINE CIR;TORRANCE;CA;90505
CALA642 - JAMES EASTER;43213 7TH ST EAST;LANCASTER;CA;93535
CASF040 - RONALD PEART;BOX 31064;SAN FRANCISCO;CA;94131
CASM035 - KURT --LAST NAME AND ADDRESS WITHELD BY REQUEST
CASM036 - RICHARD SILAGI;BOX 1071;BELMONT;CA;94002
CO 049 - MARSHALL SPILLER;1050 S DAHLIA #C-27;DENVER;CO;80222
FL 205 - KEN BROWN;455 N W 24 AVE;MIAMI;FL;33125
IL 316 - JERRY LEAHY;2329 S 16TH AVE;BROADVIEW;IL;60153
MI 161 - FRED BRUTSCHE;3811 WINDERMERE;ST JOSEPH;MI;49085
MN 050 - MICHAEL WACHHOLZ;5723 RIDGE CREEK RD;SHOREVIEW;MN;55126
NJ 208 - KARL SCHWARTZMAN;2141 ROUTE 38 APT 701 W;CHERRY HILL;NJ;08002
NORW003 - TOM HALVORSEN;ETTERSTADSLETTA 50 OSLO 6;N-0659 NORWAY;;
NY 336 - MARK LANDGRAFF;3 CORALBERRY CIRCLE;ALBANY;NY;12203
NY 337 - RICHARD COLVIN;BOX 84;STATEN ISLAND;NY;10314
TX 168 - RAY & COETA MILLS;12612 SUNGLOW;DALLAS;TX;75234
TX 169 - LANCE TERRY;2820 PRAIRIE CREEK DR;PIANO;TX;75075
TX 170 - ELLEN --LAST NAME AND ADDRESS WITHELD BY REQUEST
VA 103 - RCJOHNSON NEWSLETTER PRINTING &;
MAILING SVC PO BOX 390 DEPT MA;OAKTON;VA;22124

MEMBERSHIP CARDS AND BADGES

RCMA has no badges, decals, or membership cards for sale or distribution. The label on your newsletter is your membership card. While other clubs may have gimmicks or commercial good deals, our 'good deal' is your newsletter. You determine its content because you write it.

MAILING PROCEDURES

The newsletter mailed each month has a cover date for the following month. This practice is followed so that the US Post Office can deliver your issue no later than the first of the month designated on the cover.

New members whose applications are received before the end of the month will begin receiving the newsletter the following month. The first issue will be dated the month after that — as described above.

RENEWAL PROCEDURES

During the month your membership — and therefore your newsletter delivery — is due to expire, you will receive a renewal notice in the form of a postcard. It contains all the information you need to continue receiving the newsletter.

Renewal checks and new membership applications received by RCMA's General Manager, P.O. Box 542, Silverado, CA 92676, are processed for deposit on a weekly basis. Actual computer updating is done at the end of each month. If your check/MO is received after this cut-off date, you will miss the next issue of the newsletter and your new renewal date will be moved back accordingly.

PRORATED MEMBERSHIPS

Due to postage costs and other considerations, membership applications or renewals for any sum less than the current rate are prorated accordingly. This means that the renewal date will be due in less than a year. Please do not send more money to finish the year; just renew when your prorated date comes up.

Also because of postage costs, RCMA cannot comply with member requests to supply back issues free of additional charge (see the monthly Calendar section regarding ordering of back issues). If a late renewal results in a missed issue, the newsletter can be ordered from RCMA's secretary.

ADDRESS CHANGES

MEMBER notifications of address changes are also updated at the end of each month. If this type of address change notice arrives after the cut-off date, the mailing label will not reflect the new address until the following month.

The newsletter is mailed 3rd class under a bulk mail permit. When a member's address change is supplied by the POST OFFICE (instead of by the member), the charge to the club is 30¢.

SPECIAL FREQUENCY REQUESTS

Get in touch with your local RCMA group (see monthly Calendar section for chapter listings) or use the Contact/Information Wanted column for frequencies in your area. RCMA is not yet set up for national distribution of frequencies, although ultimately, the 'big picture' could include copies of the FCC and IRAC data bases, a fast computer, and software to select and sort in any order.

Contributions of frequencies and other material must be sent to the appropriate newsletter editor. (Editors use their own discretion in printing material sent them by non-members.) Data sent to P.O. Box 4563 is always subject to delay and sometimes cannot be forwarded because of postage costs.

DISCLAIMER

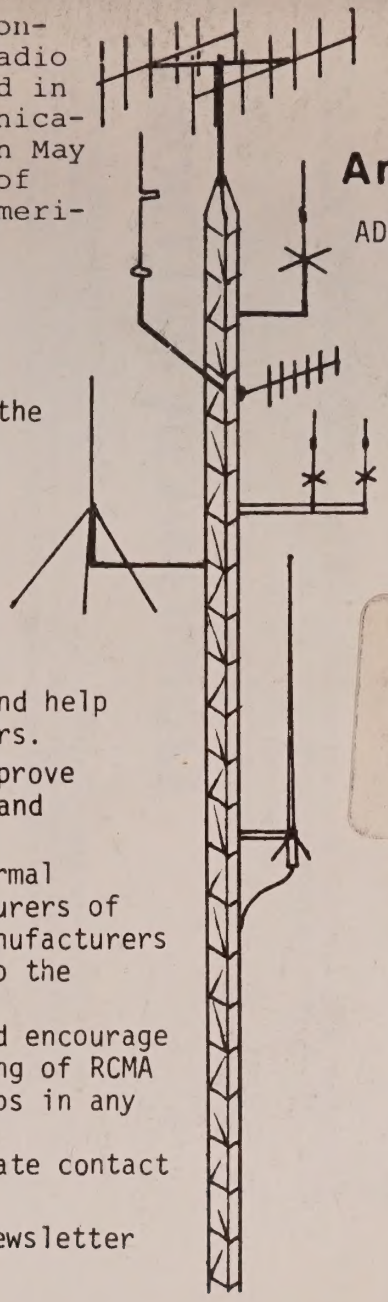
RCMA is a non-profit club for scanner enthusiasts. Neither RCMA or its newsletter are affiliated with, participate in the management of, or are responsible for, any other organization or publication. This disclaimer includes application to POLICE CALL, an annual publication put out by RCMA's good friend Gene Hughes. Queries about this publication cannot be answered by RCMA.

PLEASE REMEMBER — When writing to RCMA for any reason, include your membership number. Use it on your correspondence, checks, or money orders. RCMA tries hard to be responsive to your questions/problems. Using your membership number when you write helps us be of help to you.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



RCMA
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